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PERSONAL.

Mr. William H. Floyd, Jr., has been elected City Engineer of St. Joseph, Mo.

Mr. A. B. Newell has been elected Vice-President of the White Pass & Yukon Route, with office in Chicago, Ill.

Mr. N. L. Norris has been appointed General Manager of the new plant of the Banner Electric Co. at Youngstown, O.

Mr. R. W. Kelley has been appointed General Manager of the Washington County R. R., with headquarters at Calais, Me.

Mr. C. G. Warner has been elected President of the Mississippi River, Hamburg & Western Ry. to succeed Mr. L. A. Cole.

Mr. J. W. Dawsey, heretofore with the Canadian Pacific R. R., has been appointed Superintendent of the Algoma Central Ry.

Messrs. Malochee & Coleman, Civil Engineers, of New Orleans, La., have been appointed Engineers to the Dock Commission of that city.

Mr. M. E. Ingalls, President of the Cleveland, Cincinnati, Chicago & St. Louis R. R., has also been elected President of the Cincinnati Northern.

Mr. S. M. Smith has been elected President of the Maricopa & Phoenix and Salt River Valley R. R., with office in San Francisco, Cal., succeeding Mr. N. K. Masten.

Mr. Frank W. Morse, Superintendent of Motive Power of the Grand Trunk Ry., has been elected Third Vice-President and Assistant General Manager of that company.

Mr. W. W. Drinker, an assistant civil engineer on the Delaware, Lackawanna & Western R. R., has resigned to accept a position with the Delaware & Hudson R. R.

Mr. W. D. Wiggins, formerly an Assistant Engineer on the Pennsylvania R. R., has been appointed Engineer of Maintenance of Way of the Cincinnati & Muskingum Valley R. R.

Mr. Irvine Watson has resigned as City Engineer of Traverse City, Mich., to take charge of the construction of the intercepting sewer and septic disposal plant at Fon du Lac, Wis.

Mr. Frank B. Bettz, of Cincinnati, O., has been appointed Engineer of Maintenance of Way of the Detroit Southern R. R., with headquarters at Springfield, O., to succeed Mr. W. H. Severling.

Mr. A. Lepard has been appointed Superintendent of Bridges and Buildings of the Chicago, Rock Island & Pacific R. R., with headquarters at Davenport, Ia., succeeding Mr. G. A. Gould, resigned.

Mr. Frederic A. Kummer has resigned as Manager of the Eastern Paving Brick Co., of Catskill, N. Y., to accept the position of General Manager of the United States Wood Preserving Co., with offices at 29 Broadway, New York city.

Mr. William Sharon, City Engineer of Springfield, O., has been discharged by the Board of Public Affairs of that place and Mr. William H. Sieverling, Chief Engineer of the Detroit Southern R. R., has been appointed his successor.

Mr. S. Taylor Wilson, C. E., who has been in charge of the Engineering Department of Tippett & Wood, of Phillipsburg, N. J., general contractors in iron work, for a number of years, has been elected a Director and Vice-President of that company.

Mr. J. G. Hartigan, formerly Assistant General Superintendent of the Illinois Central R. R., has been appointed Division Superintendent of the Atchison, Topeka & Santa Fe R. R., succeeding Mr. W. E. Green, who has been made General Manager of the Shreveport & Red River Valley Ry.

Mr. E. R. Dick was elected President of the Brockville, Westport & Sault Ste. Marie Ry. at the meeting of the company on July 10. Mr. S. Hunt was elected Vice-President, Mr. E. A. Geiger Secretary-Treasurer, Superintendent and Passenger Agent, and Mr. W. H. Cole General Manager.

Messrs. D. H. Burnham, Charles McKim and Charles Moore, members of the Committee for the Improvement of the Washington, D. C., Park System, arrived in London on July 18, after visits to Paris, Rome, Venice, Berlin and other Continental cities. The committee will sail for this country on July 26.

Mr. Edward Wilmann, City Bridge Engineer, and Mr. H. H. Jackman, Assistant City Engineer, of Chicago, are among a number of the city's employees discharged on account of the city's serious financial condition. Many other employees have had their salaries reduced, and it is expected that lack of funds will oblige the city to pay its remaining employees in scrip or certificates.

Mr. James S. Neville, of Bloomington, Ill., has been appointed Chairman of the Railroad and Warehouse Commission of Illinois to succeed the Hon. C. J. Lindley, whose term has expired. The following officers have been elected: Mr. Kilpatrick, Secretary; Mr. Chas. J. Smith, Assistant Secretary; Mr. Frank G. Ewald, Consulting Engineer, and Mr. James H. Danskin, Attorney.

Mr. E. R. Russell, formerly Superintendent of the Quebec, Montmorency & Charlevoix Ry., has been appointed General Superintendent of the Great Northern Ry. of Canada. Mr. J. A. Everell has been appointed Superintendent of the Montmorency and Ste. Anne Divisions of the Great Northern, and Mr. H. N. Bartlett Superintendent of the Citadel Division, comprising the Quebec electric system.

Mr. D. C. Churchill, M. E., formerly connected with the Westinghouse Machine Co., at Pittsburg, Pa., sailed on the steamer "Manitou" on July 20 for India, where he goes to found and develop a system of model trade schools at Ahmednager, a town about 175 miles inland from Bombay. Mr. Churchill is a graduate of the Massachusetts Institute of Technology, class of 1899. The enterprise is largely supported by the American Board of Foreign Missions. With Mr. Churchill goes Mr. J. B. Knight, a graduate of the Amherst Agricultural College, who will co-operate in the establishment of a system of irrigation.

OBITUARY

Mr. John Henderson, shipbuilder, died recently at Glasgow, Scotland. Mr. Henderson was about 55 years of age, and was the senior member of the firm of D. & W. Henderson, Ltd., Shipbuilders.

Mr. William R. Sill, Civil Engineer, died in La Crosse, Wis., on July 15, aged 79 years. He had charge of the construction of the La Crosse & Milwaukee road in 1850, and has since been engaged in the lumber business.

Mr. Alfred Van Santvoord, President of the Hudson River Day Line, died on board his yacht, the "Clermont," on July 22, which was anchored off Sea Gate. Mr. Van Santvoord was born in 1819. He was largely interested in railways.

Mr. John Downey, builder, died at his summer home, at New Canaan, Conn., on July 19. Mr. Downey was about 70 years old, and a native of Ireland. Among the many large buildings erected by him in this city are the Waldorf-Astoria Hotel, the Park Row Building, the Home Life Building, the American Tract Society Building and the Astor residence.

ENGINEERING SOCIETIES

COMING MEETINGS.

OHIO ELECTRIC LIGHT ASSOCIATION.
Aug. 20 to 22. Annual meeting at Put-in-Bay, O. Secy., J. H. Perkins, Youngstown, O.

LEAGUE OF AMERICAN MUNICIPALITIES.
Aug. 21 to 24. Annual meeting at Jamestown, N. Y. Secy., John MacVicar, Des Moines, Ia.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
Aug. 24 to 31. Annual meeting at Denver, Colo. Secy., L. O. Howard, Cosmos Club, Washington, D. C.

INTERNATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 2 to 4. Annual meeting at Niagara Falls, N. Y. Secy., Frank P. Foster, Corning, N. Y.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.
Sept. 10. Annual meeting at Buffalo, N. Y. Secy., Wilson S. Howell, P. O. Box 114, Newark, N. J.

EASTERN MAINTENANCE OF WAY ASSOCIATION.
Sept. 17 and 18. Annual meeting at Rochester, N. Y. Secy., F. C. Stowell, Ware, Mass.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 1 to 4. Annual meeting at Niagara Falls, N. Y. Secy., D. L. Fulton, Allegheny, Pa.

RAILWAY SIGNALING CLUB.
Oct. 8 and 9. Annual meeting at Buffalo, N. Y. Secy., C. O. Tilton, C., M. & St. P. Ry., W. Milwaukee, Wis.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 9 to 11. Annual meeting in New York city.

THE WESTERN KENTUCKY GOOD ROADS ASSOCIATION was organized at Hopkinsville, Ky., on July 11. The following committee on permanent organization was appointed: F. W. Dabney, J. G. B. Holt, W. H. Mimms, G. C. Long, J. H. Lackey, Geo. E. Gary, J. D. Clardy.

NEW PUBLICATIONS.

PROCEEDINGS OF THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION.—Published by the association. Secy., L. C. Fritch, 1542 Monadnock Block, Chicago, Ill. Paper; 8vo.; pp. 492; illustrated. $2.

This is volume No. 2 of the proceedings, and contains the reports presented at the second annual convention, held in Chicago in March, together with the discussions and the general proceedings of the convention. The reports contain a mass of useful information, but (as was shown in our comments at the time of the meeting) some of the reports simply present this matter and leave readers to investigate it and make their own conclusions, although this work should properly have been done by the respective committees. The illustrations include a set of folding plates of drawings of docks, wharves, piers, car-transfer bridges, car floats, etc. There are also other illustrations, diagrams and folding tables. Some of the most interesting and valuable information is contained in the discussions. There is an index, an alphabetical list of members, a list of railways with the names of officers who are members, and a closely-printed appendix of about 100 pages containing the laws relating to grade crossings in the several states. The book is well printed on good paper.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 8½x5 ins., 6x9 ins., and 9x12 ins.)

ELECTRIC MINE LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa., and Westinghouse Electric & Mfg. Co., Pittsburg, Pa. Paper; 9 × 6 ins.; pp. 75; illustrated.

This is a complete catalogue and list of parts of electric locomotives for mine haulage. Brief descriptions are given of mines in which electric power has been adopted.

LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Paper; oblong; 9 × 6 ins.; pp. 32; illustrated.

This is a special catalogue compiled in English and Spanish for the use of exhibitors and visitors to the Pan-American Exposition at Buffalo. It describes the Baldwin works and output and the locomotives of this firm at the exposition.

ELECTRIC TRAVELING CRANES.—Pawling & Harnischfeger, 167 Clinton St., Milwaukee, Wis. Paper; 11 × 8 ins.; pp. 131; illustrated.

The engineer or intending purchaser will find in this book much valuable information regarding electric cranes of all sizes and of the most improved designs. The illustrations are numerous and excellent, showing the many types of cranes and the details of their construction.

STEAM SPECIALTIES.—A. A. Griffing Iron Co., 66 Centre St., New York city. Paper; 6 × 9 ins.; pp. 94; illustrated.

This is a descriptive catalogue with tables of dimensions and prices of steam traps, separators, feed-water heaters, low-water alarms and exhaust heads. The "Bundy" steam trap, manufactured by this company, consists of a hinged chamber balanced by a weight and so arranged that the water is automatically emptied as soon as the chamber is filled.

STEAM DISTRIBUTION.—American District Steam Co., Lockport, N. Y. Paper; 6 × 9 ins.; pp. 36; illustrated.

This pamphlet contains an excellent treatise upon the "Holly" system of direct and exhaust steam distribution for heating in cities, with a full description of the apparatus and methods employed and a discussion of its advantages over other systems. Steam is distributed directly to the consumer, and the condensed water is not returned, the heat remaining in the water being used to warm air for ventilation.

DISK AND PROPELLER FANS.—B. F. Sturtevant Co., Boston, Mass. Paper; 6½ × 9 ins.; pp. 16; illustrated.

The introduction to this pamphlet says:

The field of usefulness and highest efficiency for disk and propeller fans is that in which resistances are slight and velocities low. Then and then only are fans of this type in any sense competitors of the cased fan with centrifugal discharge. For the forcing of air through extended piping systems, for the production of mechanical draft or for the conveying of light material, the latter type is necessary. But within their own somewhat limited field the disk and the propeller fan cannot be excelled for efficiency, although the centrifugal type can be used to advantage where the conditions demand.

SURVEYING INSTRUMENTS.—The A. Lietz Co., 422 Sacramento St., San Francisco, Cal. Boards; 6 × 9 ins.; pp. 200; illustrated.

The fourth edition of this manual of modern surveying instruments describes and illustrates the peculiar features of the instruments made by this firm; and also gives much valuable advice as to their proper use, care, preservation and adjustment. It contains a practical treatise on stadia surveying, remarks on the principles of the logarithmic slide scale, practical hints on the selection of a good surveying instrument, detailed descriptions of the Goldschmid aneroid, the Saegmüller solar attachment and the cyclotomic transit, with its one spindle. The concluding part is an illustrated catalogue and price-list of the instruments made by The A. Lietz Co.

CASE-HARDENING WITH BONE DUST.—The Rogers & Hubbard Co., Middletown, Conn. Paper, 3⅝ × 6 ins.; pp. 29.

This little pamphlet is really an excellent treatise on the art of case-hardening and coloring metal work with granulated raw bone, especially manufactured for this purpose for the last twenty years by the firm named. After telling how the bone is prepared, the text gives explicit directions for using it in case-hardening processes; in thus treating drawbridge disks, thrust-bearing rings, rolls, malleable iron, etc. A special preparation of the bone is used for coloring and case-hardening, and the user is told how to pack the work; how to heat it; apply the bath and dump and clean the work. Further and similarly minute directions are given for annealing with this granulated raw bone. These full directions are prepared by the most practical and experienced case-hardeners in the country, and are correspondingly valuable to the manufacturer. The same firm manufactures Hubbard's fertilizers for all soils and crops.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
July 25.	Reservoir, etc.,	New London, Conn.	July 18
	Advertised, Engineering News, July 18.		
July 25.	Oil burning apparatus,	Alexander, La.	July 18
July 25.	Wash borings,	New York, N. Y.	July 18
	Advertised, Engineering News, July 18.		
July 25.	Paving,	Marysville, O.	July 18
July 25.	Remodeling court house,	Birmingham, Ala.	July 18
July 25.	School,	Jersey City, N. J.	July 18
July 25.	Sidewalks,	Iroquois, Ont.	July 18
July 25.	Stripping, etc., water-works,	Clinton, Mass.	July 11
	Advertised, Eng. News, July 11 and 18.		
July 25.	Heating apparatus,	Waldoboro, Me.	July 4
	Advertised, Eng. News, July 4 and 11.		
July 25.	Stripping, excavating, etc.,	Boston, Mass.	June 27
	Advertised, Eng. News, June 27 and July 4.		
July 25.	Grading, etc.,	Blowing Rock, N. C.	July 25
July 25.	Sewers,	Detroit, Mich.	July 25
July 26.	30-in. water mains,	Kansas City, Mo.	July 11
	Advertised, Eng. News, July 11 and 18.		
July 26.	Pier repairs,	Manistee, Mich.	July 11
July 26.	Paving, etc.,	Terre Haute, Ind.	July 18
July 26.	Road building,	Albany, N. Y.	July 18
July 26.	Bridge,	Pakenham, Ont.	July 18
July 26.	Hospital building,	Gowanda, N. Y.	July 18
July 26.	Church,	Houston, Tex.	July 18
July 26.	Sewers,	North Vernon, Ind.	July 18
July 26.	Sewers,	Montpelier, Ind.	July 18
July 27.	Sewers,	Rocklin, Cal.	July 18
July 27.	Grading and graveling,	Bellefontaine, O.	July 18
July 27.	Paving,	Napoleon, O.	July 18
July 27.	Macadamizing,	Decatur, Ind.	July 18
July 27.	Quay wall,	Boston, Mass.	July 18
July 27.	Building,	Washington, D. C.	July 18
July 27.	Bridge,	Dyersburg, Tenn.	July 18
July 27.	Grading,	Washington, D. C.	July 18
July 27.	Electric plant,	Fort Washington, Md.	July 4
	Advertised, Eng. News, July 4 to 25.		
July 27.	Grading, etc.,	Washington, D.C.	July 11
	Advertised, Engineering News, July 11.		
July 27.	Repairs to court house,	Norwalk, O.	July 11
July 27.	Court house,	Ottawa, Ont.	July 11
July 27.	Brick culvert,	Cincinnati, O.	July 11
July 27.	Sewers,	Washington, D. C.	June 27
	Advertised, Engineering News, June 27.		
July 27.	Grading, etc.,	Celina, O.	July 25
July 27.	Septic tank, etc.,	East Cleveland, O.	July 25
July 28.	Cement sidewalks,	Laporte, Ind.	June 20
July 29.	School,	Genoa, Neb.	July 11
July 29.	Paving, etc.,	Springfield, O.	July 11
July 29.	Paving, etc.,	East Liverpool, O.	July 18
July 29.	Sewers,	Sharon, Pa.	July 18
	Advertised, Eng. News, July 18 and 25.		
July 29.	Steam lighter,	Boston, Mass.	July 18
	Advertised, Eng. News, July 18 and 25.		
July 29.	Bridge masonry,	Steubenville, O.	July 18
July 29.	Library,	Huntsville, Tex.	July 18
July 29.	Paving, etc.,	Coshocton, O.	July 25
July 29.	Town hall,	Hopkinton, Mass.	July 25
July 29.	Sewers,	Great Falls, Mont.	July 25
July 29.	Park improvements,	Yonkers, N. Y.	July 25
July 29.	Filter plant, pipe, etc.,	Philadelphia	July 25
July 29.	Crane, pump, etc.,	Philadelphia	July 25
July 29.	Addition to school,	Boston, Mass.	July 25
July 30.	Bridge masonry,	Montrose, Pa.	July 25
July 30.	Sewers,	Conneaut, O.	July 25
July 30.	Water tower, pipe, etc.,	Xenia, O.	July 25
July 30.	Telephone line,	College Station, Tex.	July 25
July 30.	Repairs to schools,	Philadelphia, Pa.	July 25
July 30.	Road building,	East Cambridge, Mass.	July 18
July 30.	Cement sidewalks,	Berlin, Ont.	July 18
July 30.	Paving, etc.,	New York, N. Y.	July 18
July 30.	Government buildings,	St. Paul, Minn.	July 18
July 30.	School buildings,	Buffalo, N. Y.	July 18
July 30.	Water tanks, buildings.,	Xenia, O.	July 18
July 30.	Steel bridge,	Dublin, Ga.	July 4
July 30.	Elevator, buildings,	New Orleans, La.	July 11
July 30.	Sewers,	Allentown, Pa.	July 25
July 30.	Sewers,	Jersey City, N. J.	July 25
July 31.	Sewers,	Revere, Mass.	July 25
July 31.	Paving, etc.,	Cleveland, O.	July 11
July 31.	Railway depot,	Houston, Tex.	July 25
July 31.	Water-works,	Boone, Ia.	July 25
July 31.	Sidewalks,	Chippewa, Ont.	July 25
July 31.	Sidewalks,	Indianapolis, Ind.	July 25
July 31.	Sewers,	Indianapolis, Ind.	July 25
July 31.	Extending power plant,	Annapolis, Md.	July 25
Aug. 1.	Steel bridge,	Troy, N. Y.	July 25
	Advertised, Eng. News, July 25.		
Aug. 1.	Library,	St. Cloud, Minn.	July 25
Aug. 1.	Sewerage system,	Visalia, Cal.	July 25
Aug. 1.	Sewers,	Bozeman, Mont.	July 25
Aug. 1.	Ditch,	Lafayette, Ind.	July 25
Aug. 1.	Sewers,	Troy, N. Y.	July 25
	Advertised, Eng. News, July 25.		
Aug. 1.	Harbor work,	Manila, P. I.	Apr. 11
	Advertised, Eng. News, April 11 to June 27.		
Aug. 1.	Dredging,	Pasig River, P. I.	Apr. 25
	Advertised, Eng. News, Apr. 25 to May 16.		
Aug. 1.	Public lighting,	Cambridge, N. Y.	May 30
Aug. 1.	Iron flagstaff,	Fort Huachuca, Ariz.	July 11
Aug. 1.	Paving,	Des Moines, Ia.	July 11
Aug. 1.	Steel bridge,	Tacoma, Wash.	July 11
	Advertised, Eng. News, July 11 and 18.		
Aug. 1.	Sewer,	Des Moines, Ia.	July 11
Aug. 1.	Dormitory,	Fulton, Mo.	July 11
Aug. 1.	Sewage disposal plant,	Nanamoch, N. Y.	July 18
	Advertised, Eng. News, July 18 and 25.		
Aug. 1.	Electric railway,	Parkersburg, W. Va.	July 18
Aug. 1.	Sewers,	Plattsburg, N. Y.	July 18
	Advertised, Eng. News, July 18 and 25.		
Aug. 1.	Sidewalks,	Findlay, O.	July 18
Aug. 1.	Garbage crematory,	Findlay, O.	July 18
Aug. 1.	Sewers,	Beverly, Mass.	July 25
	Advertised, Eng. News, July 25.		
Aug. 1.	Paving,	Troy, N. Y.	July 25
	Advertised, Eng. News, July 25.		
Aug. 2.	Paving,	Wapakoneta, O.	July 18
Aug. 2.	Building additions,	Rolla, Mo.	July 18
Aug. 2.	Sewers,	Shreveport, La.	July 18
	Advertised, Eng. News, July 18 and 25.		
Aug. 2.	Paving, etc.,	Salt Lake City, Utah.	July 11
	Advertised, Eng. News, July 11 to 25.		
Aug. 2.	Hospital extension,	Washington, D.C.	July 4
Aug. 2.	P. O. and custom house,	Abilene, Tex.	July 11
Aug. 2.	Extension to hospital,	Washington, D. C.	July 25
Aug. 2.	Reservoir, etc.,	Lebanon, Md.	July 25
Aug. 2.	Boiler plant, etc.,	Chicago, Ill.	July 25
Aug. 3.	Steel bridge,	Ellsworth, Me.	July 25
Aug. 3.	Removing crib work,	New York, N. Y.	July 25
Aug. 3.	Dredging,	New York, N. Y.	July 25
Aug. 3.	Plans, etc., for sewage plant,	Galion, O.	July 11
Aug. 3.	Water pipe,	Yonkers, N. Y.	July 18
	Advertised, Engineering News, July 18.		
Aug. 3.	Buildings,	Boston, Mass.	July 18
Aug. 5.	Sewers,	Mansfield, O.	July 18
Aug. 5.	Paving,	Toledo, O.	July 18
Aug. 5.	Macadamizing,	East Chicago, Ind.	July 18
Aug. 5.	Street improvements,	Mansfield, O.	July 18
Aug. 5.	Quarters,	Omaha, Neb.	July 18
Aug. 5.	Sewerage system,	Concordia, Kan.	July 18
Aug. 5.	Bridge,	McRae, Ga.	July 18
Aug. 5.	Steel bridge,	Clarksdale, Miss.	July 11
Aug. 5.	City hall,	Vicksburg, Miss.	July 11
Aug. 5.	Sewerage system,	Sherman, Tex.	July 25
Aug. 5.	Sewers,	Mason City, Ia.	July 25
Aug. 6.	Sewerage system,	Greenwood, Miss.	July 25
Aug. 6.	Addition to court house,	Los Angeles	July 4
Aug. 6.	Government buildings,	Phoenix, Ariz.	July 11
Aug. 6.	Water filter plant,	Reading, Pa.	June 13
	Advertised, Eng. News, June 13 to 27.		
Aug. 6.	Court house,	Crawfordsville, Ga.	June 20
Aug. 6.	Water bonds,	Redwood Falls, Minn.	July 18
Aug. 6.	Sewers,	Laramie, Wyo.	July 18
Aug. 6.	Light-house supplies,	Tompkinsville, N.Y.	July 18
	Advertised, Eng. News, July 18 and 25.		
Aug. 6.	Bridges (3),	Carrollton, Pa.	July 18
Aug. 6.	Steel bridge,	San Jose, Cal.	July 25
Aug. 6.	Steel bridge,	Stockton, Cal.	July 25
Aug. 6.	Sewers,	Albion, Ind.	July 25
Aug. 6.	Sewers,	Dunkirk, N. Y.	July 25
Aug. 6.	Sewers,	Boston, Mass.	July 25
	Advertised, Eng. News, July 25.		
Aug. 6.	Wharf,	Wilmington, Cal.	July 25
No date.	Steam launch,	Cleveland, O.	July 18

RAILWAYS.

CANADIAN PACIFIC.—The survey for the extension west from Wellwood, N. B., for a distance of seven miles, is reported to have been finished. Surveys have also been made for the Snow Flake extension, 10 miles in length, which will run along the Pembina Valley, and for the extension from Waskada, Man., westward for a distance of 16 miles, along the Waskada River. The contracts for all these extensions will shortly be let; the work is to be completed by Oct. 31. W. F. Tye, Ch. Engr. of Construction, Winnipeg, Man.

CHARLESTON, GLENDENNEN & SUTTON.—Contracts are reported to have been let for the construction of an extension of this road from Clay, W. Va., the present terminus, to Big Otter, a distance of 12 miles up Elk River. It is practically assured that the road will be built on to Sutton, Braxton county, to a connection with the Baltimore & Ohio R. R.

CINCINNATI, RICHMOND & MUNCIE.—The construction of this road from Cottage Grove, 17 miles south of Richmond, Ind., to Muncie, has been completed and will soon be put in operation. The road will probably be built to Chicago and Cincinnati within the next two years.

CONTINENTAL RY.—W. T. Smith, Vice-Pres. and Mgr., 919 Grove St., Des Moines, Ia., informs us that all the officials of this road will soon be elected. The company proposes to build a line at first from Kansas City to Lake of the Woods, 700 miles, and then extend it south to the Gulf of Mexico, 800 miles, making the total length of line 1,500 miles. Bonds will be issued at $18,000 per mile. Contracts for some 70 miles will be paid for entirely in bonds, and for another 75 miles or more in cash payments. Other contracts will be drawn up when agreeable to all parties concerned.

DANVILLE, FOURCHE VALLEY & SOUTHERN.—Incorporated on July 12 in Arkansas to build from Danville to Cobb's Ferry, on the Arkansas River, a distance of 15 miles, to be a feeder to the Choctaw, Oklahoma & Gulf R. R. It is designed primarily as a log road to tap the virgin forest of that territory. The company has a capitalization of $300,000, of which $30,000 has already been subscribed. The road will be an independent enterprise, but traffic arrangements will be made with the Choctaw, Oklahoma & Gulf. J. A. Douglas, J. E. Wooten and P. M. Atchley, probably of Little Rock, Ark., are incorporators.

DAWSON R. R.—Reports state that this company has filed articles of incorporation in New Mexico, capitalized at $3,000,000, of which $130,000 has been subscribed. The prospective road will be 130 miles long and will start at a junction with the El Paso & Northeastern Ry. and the Rock Island system at Liberty, on the Guadalupe-San Miguel county line, and have its terminus in the Dawson coal fields, recently acquired by the El Paso & Northeastern Ry. Co., which is fostering this new enterprise. The headquarters of the company will be at Alamogordo, N. Mex. Wm. A. Hawkins, Alamogordo; Thomas H. Watkins, Scranton, Pa., and Francis H. Ross, New York, are interested.

FAYETTEVILLE & ALBEMARLE.—Surveys for this line have been made for a distance of 35 miles, of which distance seven miles is graded and about two miles of ties in place. The line will be 50 miles long, running from Southern Pines, N. C., to Fayetteville and Hope Mills. Clark J. Brown, Pres.; H. L. Thurston, Ch. Engr., Southern Pines.

HAGERSTOWN & BOONSBORO.—Articles of incorporation will soon be filed by this company in Maryland, according to reports. The road will be capitalized at $120,000. It is reported that bids for grading will soon be asked. Christian W. Lynch, Wm. Jennings and J. Irvin Bitner are interested.

HUDSON BAY RY.—Messrs. Mackenzie & Mann, contractors, of Toronto, Ont., are reported to be preparing to rebuild and extend the section of this road built by them for Hugh Sutherland a number of years ago. The line runs from Winnipeg, Man., in a northwesterly direction towards Shoal Lake, and from there towards Hudson Bay; the intention is to run through to Shoal Lake or Lake Manitoba this year.

JAMES BAY RY.—Robert McCallum, Government Engr. of the Province of Toronto, with office at Toronto, Ont., is reported to have stated that Mackenzie & Mann, contractors, Toronto, have started work on their road to James Bay, with which they propose to tap the Tenus Camingue district. The charter held by them had practically expired in default of work done, but they have been promised its renewal.

KANSAS CITY, MEXICO & ORIENT.—A. E. Stilwell, of Kansas City, Mo., the promoter and President of this line, made the following statement while in Boston, Mass., recently: "We have completed the survey of our entire line, 1,600 miles, in 13 months; we have 200 miles of road graded, or one-eighth of the entire length of the system, and we have over 600 miles of right of way secured, most of which we have had to purchase. In addition to this physical progress we have raised 40% of the financial needs of the company. We expect to complete our road from Kansas City to the Pacific in two and one-half years. We are employing 4,000 men in its construction, of which about 3,000 are employed in Mexico. The road is being built by three construction companies, one of which has a capital of $7,000,000 and two of $1,000,000 each. We get $7,000 per kilometer from the Mexican Government for the work not in the mountain regions, and get a lump sum of $3,000,000 for the construction of the mountain division of 250 kilometers, which is equal to $12,000 per kilometer. In addition we get concessions from the states of Sonora and Chihuahua equal to $3,000 per kilometer, and other state aid, which will amount to about $[illegible]. We believe that our line will open up an [illegible] American trade. It will shorten the distance between this country and South and Central America 1,700 miles, as Port Stilwell, our Pacific Coast port, is nearer South America by 1,200 miles than San Francisco, and there is an additional saving of the land haul of 500 miles. This road should open up an enormous market to mining machinery, etc. The export trade of the west coast of Mexico now amounts to about $11,000,000 per annum and the import to the extent of $4,000,000. J. T. Odell, formerly of the Northern Pacific, Baltimore & Ohio, and New England roads will be one of the Vice-Presidents or General Managers of the Kansas City, Mexico & Orient, and will have full charge of all operating employees."

LEHIGH & NEW ENGLAND.—An extension of this line from its present terminus at Pine Island to Corawaxa, N. Y., will be built by this company under the charter of the Campbell Hall Connecting Road, which it owns. The new line will be about 32 miles in length, and will enable the company to transport its tonnage to New York city by its own lines. It is said that work will be started within a few weeks, and that the line will be completed by Jan. 1. Leonard Goodwin, Gen. Supt., Pen Argyl, Pa.

MARQUETTE, SPRING VALLEY & NORTHWESTERN.—Chas. S. Henning, Ch. Engr., Toluca, Ill., informs us that the grading is now under way, the company doing its own work. The line will run from Marquette to Spring Valley. J. S. Wylie, Pres., Davenport, Ia.

NEW YORK, N. Y.—It is stated that Page, Fairchild & Co., of Oswego, N. Y., and the Oexter & Carthage Sulphite Mills Co., owners of some 52,000 acres of timber land in Highmarket, Osceola and Montagle, will build a railway from Highmarket to Lowville or Glenfield. The estimated cost of the line of Lowville is $100,000; if built, the town of Lowville will be asked to subscribe for $25,000 in stock. The steepest grade would be about 200 ft. to the mile.

NEW YORK, NEW HAVEN & HARTFORD.—Contracts for the completion of the Bridgeport, Conn., improvements, with the exception of the depot and the new rolling lift bridg, were let by John M. Hall, Pres., on July 12. The successful contractors were Dwight & Daley, John C. Sheehan & Co. and John J. O'Brien, all of New York. The completed work will mean the elimination of 33 grade crossings, the erection of station building and the construction of a rolling-lift bridge to replace the present swing bridge over this arm of the bay in East Bridgeport. The improvements will cost almost $3,000,000; work will be started early.

PITTSBURG, CARNEGIE & WESTERN.—Bids for constructing the first 10 miles of this line have been received from Booth & Flinn, Ltd., Thomas McNally, Drake & Stratton, T. A. Gillespie Co., Jutte & Foley Co., H. S. Kerbaugh, W. E. Howley, the Ferguson & Broadhead Contracting Co. and Keeling & Ridge, all of Pittsburg, and others. This work was advertised in Engineering News, and bids were received on July 10. It will cost in the neighborhood of $3,000,000. The road will be a branch of the Wabash R. R. J. W. Patterson, Ch. Engr., Pittsburg, Pa.

SAN PEDRO, LOS ANGELES & SALT LAKE.—R. C. Kerens, Vice-Pres., St. Louis, Mo., states that 60 miles of road are now under construction and that 20 miles of the Los Angeles Terminal R. R., acquired by this company, has been rebuilt with 75-lb. steel rails. The company has purchased materials for the construction of 70 miles, and has the rights of way for a distance of 30 miles out from Los Angeles, Cal., which, it is expected, will soon be let to contract. The work will be pushed as expeditiously as circumstances will permit.

SOUTHWESTERN.—Orman & Crook, railway contractors, of Denver, Colo., have received a contract for building the grade of the new railway, to be operated by this company from Deming, N. M., south towards El Paso, Tex. The road will be about 130 miles in length and will cost about $1,000,000. It will be built by Phelps, Dodge & Co., of New York, and, it is stated, will be closely allied to the Southern Pacific Co.

UNITED VERDE & PACIFIC.—Frank H. Olmsted, Consulting Engr., Jerome, Ariz., informs us that the bids for the filling in of bridges have been received, but will not be opened until the arrival of W. A. Clark, Pres., of Butte, Mont. C. A. Thomas, Ch. Engr., Jerome.

VELASCO, BRAZOS & NORTHERN.—A charter for this road has been filed in Texas, capitalized at $200,000, to purchase and operate the property of the present Velasco Terminal Ry., extending from Velasco to Anchor in Brazoria county, with the privilege of extending the road from Anchor through Brazoria, Fort Bend and Waller counties to Hemstead. D. B. Henderson, Galveston; H. Masterson, Houston, and A. E. Masterson, Angleton, are interested.

VIRGINIA & RAINY RIVER.—Reports state that 50 miles of this proposed road will be built this year. The road will tap the timber and mineral districts in Minnesota, running from Duluth to Koochiching, opposite Fort Francis, Ont., on the Rainy River. The heaviest grade will be 1% and will extend for only a mile.

WASHINGTON & OREGON.—A. C. O'Neil, Ch. Engr., Vancouver, Wash., writes that the company is doing its own work on the construction of the road from Seattle, Wash., through Kalama, Vancouver, thence to Portland, Ore., 126 miles in length, and has finished the locations between Kalama, Wash., and Portland. The construction between Vancouver and Kalama is now in progress, the funds having been entirely secured. The concrete and steel bridge work will probably be let to contract. Allen C. Mason, Pres., Tacoma.

WEATHERFORD, MINERAL WELLS & NORTHWESTERN.—L. M. Fouts, Pres., Weatherford, Tex., informs us that contracts for building the company's 61 miles of railway through Christian, Graham and Jacksboro will be let in a few days. The surveys have been completed and the construction funds secured.

STREET AND ELECTRIC RAILWAYS.

BINGHAMTON, N. Y.—The state board of railroad commissioners has granted permission to the Oneonta, Cooperstown & Richfield Springs R. R. Co. to increase its capital stock from $750,000 to $1,000,000. The company has work well under way on its line.

GLOVERSVILLE, N. Y.—J. M. Shannahan, Engr. Fonda, Johnstown & Gloversville R. R., informs us that the contract for an eight-mile extension of the company's road, and also for a 14-mile extension of the Amsterdam St. R. R., will be awarded about Aug. 10. Contractors having the organization and plant capable of doing this

work expeditiously are invited to bid. The preliminary surveys for the eight-mile extension have been completed, and the field parties are now at work locating the line.

MEYERSDALE, PA.—The Meyersdale & Salisbury Ry. has received a charter to build and operate an electric railway between Salisbury and this city, a distance of six miles, and to furnish power to all nearby towns. The company is capitalized at $36,000. T. N. Nelson, Chambersburg; Geo. B. Parker, Pittsburg, and A. O. Lorentz, Meyersdale, are interested.

WAYNESBORO, PA.—The council will grant the Chambersburg, Greencastle & Waynesboro St. Ry. a franchise through this city. H. B. McNulty, Chambersburg; J. P. Rahauser, and D. M. Good, Waynesboro, are interested.

BALTIMORE, MD.—Local papers state J. L. Blackwell & Co., contractors, of this city, have secured a contract for building the Philadelphia & Paoli; Westchester & Southern, and Coatesville & Downington trolley lines. All of these roads have been chartered by the same company, of which Albert B. Kelley, of Philadelphia, is President.

BESSEMER, ALA.—Reports state that the Consolidated Light & Power Co., of Birmingham, will begin work within a month on the extension of the electric line from Birmingham to Powderly, so as to bring it through to Bessemer.

BIRMINGHAM, ALA.—The stockholders of the Birmingham Ry., Light & Power Co. have authorized an issue of $6,000,000 of funds on the property recently consolidated. Of this amount $2,000,000 will be expended on improvements throughout the system. The company will erect at once a new car barn to replace the one burned several months ago. The new structure will be of brick and steel, 250 × 190 ft., with a capacity of 100 cars. A franchise has been asked of the board of aldermen of Wiglam for a line through that place from this city via Ensley. The line is already built for nearly half the distance and will be rapidly extended to that place. J. B. McClary, Mgr.

HARTFORD, KY.—John B. Wilson, of this city, writes us that a preliminary survey has been completed for the electric line to be built by the Hartford & Beaver Dam Electric Light & Power Co., and four-fifths of the right of way is secured and the remainder sure. Negotiations are now under way for floating the company's bonds, and when completed the contracts for construction will be let. The road will be 4.5 miles in length, and will be completed this season. C. M. Barnett, Pres., Louisville.

COLUMBUS, O.—The Hillsboro & Ohio River Traction Co. has been incorporated with a capital stock of $10,000 to construct and operate an electric railway from Hillsboro to Aberdeen, running through Highland, Adams and Brown counties. Henry M. Huggins, Thomas H. Hogsett and O. Z. Blair are incorporators.——Work will be at once started on the construction of the Columbus, Buckeye Lake & Newark Electric Ry. by W. H. Luchtenberg, contractor, who has the contract for constructing the line from Third to Mound St. He will engage 500 men and 100 teams to begin the work with. The remainder of the road is now being constructed by the Great Northern Construction Co.

FINDLAY, O.—We are informed that progress is being made obtaining the rights of way for the Findlay, Columbus Grove & Fort Wayne R. R., which will run through Benton Ridge, Pandora, Ft. Jennings and Cevet, besides the towns named, having a total length of 80 miles. The construction capital is not yet secured. Electricity will be used as motive power. J. H. Kimmell, Pres.

HILLSBORO, O.—Worley & Higgins, of this place, inform us that actual work of construction on the Chillicothe & Hillsboro Traction Co.'s line will be started by the Ohio Trust Co., of Chicago, next week. That company has the contract for the entire line between this place and Chillicothe, 40 miles.

TOLEDO, O.—We are in communication with parties who desire to be put in touch with responsible construction companies that will build a projected electric railway and equip the same, to be paid in installments as the work proceeds. Our correspondents advise us that they have several electric railway schemes in hand, the first job to involve the construction of something like 50 or 60 miles of road, with others of similar dimensions in immediate prospect, provided everything works satisfactory. Companies wishing to communicate with the parties interested will address "K. B. J., Engineering News Publishing Co., 220 Broadway, New York.

TOLEDO, O.—Fred. J. Bollmeyer, Wauseon, informs us that the rights of way, franchises and construction capital for the Toledo-Bryan Air Line has been secured, and that contracts will be let about Aug. 10. The proposed road will be operated by electricity and will be 57 miles long. It will run through Holland, Swanton, Delta, Wauseon, Archbold, Stryker and Bryan. Milton Taylor, Pres.

GREENFIELD, IND.—Geo. W. Duncan, Greenfield, writes that the construction of the Muncie, Middletown & Greenfield R. R. will be started in about 30 days. The work of securing rights of way is now in hand and surveys will be started as soon as completed. The road will have a length of 50 miles, and will be operated by electricity. Wm. Wood, Pres., Muncie.

VALPARAISO, IND.—C. W. Bartholomew, of this city, informs us that the franchises for the Valparaiso, Michigan City & Chicago St. R. R. have been secured. The company has not yet been formed, but it is expected that the organization will be effected at once. The projected road will be 100 miles long, running from Valparaiso, Westville, Freeport, South Bend, Michigan City, Chestertown and Hobart to Chicago. Mr. Bartholomew states that the construction will probably be started in about 30 days. U. L. Agnew, Wm. Freeman, P. W. Clifford and A. F. Bowser, of Valparaiso, are also interested.

MANISTEE, MICH.—E. W. Muenscher, Ch. Engr., informs us that preliminary surveys for extension of the Manistee, Filer City & East Lake Electric Ry., from Orchard Beach to Bear Lake, a distance of about 15 miles, have just been completed. Negotiations are now in progress for the rights of way and for funds for construction. G. A. Hart, Pres.

MILWAUKEE, WIS.—Local papers state that plans are being formulated by Cincinnati capitalists for the construction of an interurban line between Stevens Point and Grand Rapids, traversing the Wisconsin Valley. The first stretch of road to be built will be 30 miles in length. D. O. Fischer, Grand Rapids, Wis., and S. T. Rogers, W. F. Young and J. C. Burton, of Cincinnati, are interested.

GRANITE CITY, ILL.—The council has granted a franchise to E. W. Hilker, Walter Roman and August Miller for an electric street railway and a light and power plant.

SAN JOSE, CAL.—Application for a franchise to construct electric railways over certain roads in Santa Clara county has been made by Geo. T. Dunlap. Bids will be asked until Aug. 19. Henry A. Pfister, County Clk.

SALT LAKE CITY, UTAH.—The Eureka & Palisade Ry. has been incorporated by M. L. Regna, Oakland, Cal., and I. W. Hellman, Jr., of San Francisco, with a capital stock of $300,000.——The Salt Lake City R. R. will issue $500,000 in bonds, the money to be used in betterments to the street railway system and to pay off indebtedness.

ELECTRIC LIGHT AND POWER.

ST. ALBANS, VT.—The St. Albans Electric Light & Power Co. has been reorganized, and will build a power plant at Sheldon Springs to develop 3,000 HP. J. F. Kelley, Pres. of the Stanley Electric Mfg. Co., Pittsfield, Mass.; H. C. Gray, Treas., Greenwich, N. Y.; H. F. Lincoln, Supt.

MANSFIELD, MASS.—This place has voted to build an electric plant. Address Robert Rogerson.

KEARNEY, N. J.—Plans and specifications have been prepared for a $150,000 power house and plant to be erected in Kearney by the N. J. Light & Power Co., recently incorporated with the intention of competing with the United Electric Co. Wm. Hanna, Pres.; Adam Groel, Sec. and Treas. of the Clark Thread Mills.

ANNAPOLIS, MD.—Bids are asked until July 31 for enlarging the power plant at the U. S. Naval Academy. A. S. Crowninshield, Ch. Bureau of Navigation, Washington, D. C.

PORT DEPOSIT, MD.—The Port Deposit Electric Co., it is stated, will improve its plant. Address W. W. Hopkins.

CULPEPER, VA.—J. M. Spotts, of Staunton, Va., has been granted a 10-year franchise for an electric plant.

CHARLESTOWN, W. VA.—C. H. Emig, of Hanover, Pa., has purchased water power rights at the Hopewell Mills, four miles from here, which it is proposed to develop.

SHARON, TENN.—The question of an electric plant in connection with the water-works is being considered.

FRANKFORT, KY.—E. B. Weifzel, Mgr. Capitol Hotel, is reported to be arranging to build a new electric plant for this city.

DOLYESTOWN, O.—Bids are asked until Aug. 12 for constructing an electric plant, to cost about $9,000. Chas. F. Sturtevant, Engr., Chicago.

FREMONT, O.—Local papers state that the Fremont Electric Light & Power Co., the Fremont Gas Co., and the Creager Electric Light Co., will soon be under one ownership.

TERRE HAUTE, IND.—Bids are asked by the board of trustees of the state normal school until Aug. 10 for the purchase of a 100-HP. boiler, two dynamos, two engines, etc., according to reports.

MILWAUKEE, WIS.—The council will soon ask for new bids for naphtha lighting.

OLIN, IA.—Subscriptions for an electric plant are being secured, according to reports.

UNION, IA.—Reports state that it is proposed to build an electric plant.

RED WING, MINN.—The Red Wing Gas Co. has offered to make extensive improvements to its plant, provided it secures a 10-year extension to its franchise.

FULLERTON, NEB.—Wm. J. McEathern and Clayton A. Gates, of Omaha, Neb., have applied for permission to build a power plant near this place, to cost $19,500.

BROOKINGS, S. DAK.—Bids are asked until Aug. 7 for extending the electric plant and building water-works. Loweth & Wolff, Engrs., First National Bank Bldg., St. Paul, Minn., and the Marquette Bldg., Chicago; J. V. Walker, Cy. Clk.

CASSELTON, N. DAK.—The question of issuing bonds for an electric plant is being considered.

COOPERSTOWN, N. DAK.—W. R. Brueske, of Wimbledon, N. Dak., is reported as preparing to build an electric plant here.

PARK RIVER, N. DAK.—Bids are asked by the city auditor until Aug. 12 for an electric plant and water-works. Geo. Brambel, Engr., Mayville, N. Dak.

ADA, IND. TER.—Reports state that an electric plant will be built here.

SAN FRANCISCO, CAL.—Reports state that two electric power plants, one to develop 12,000 HP., the other 3,000 HP., are planned to be constructed in Shasta county, Cal., for the Shasta Electric Light & Power Co., which has pre-empted 50,000 ins. of the waters of the McCloud River at a point 14 miles above where that stream joins the Pit. The works are expected to be in operation by November, and will cost $1,000,000. The Crocker and Fair estates are said to be interested.

SONORA, CAL.—J. G. Hopper, Civil Engineer, Sonora, writes us that the Sierra Electric Power & Water Co. propose to construct 9.18 miles of ditch along the north fork of the Tuolumne River and supply Carters and the adjacent mines with water power and light, etc. D. A. Jones, Engr.; C. H. Carter, Pres.——The Tuolumne Power & Development Co. have completed surveys and propose to construct a ditch 5.5 miles long and a tunnel three-quarters of a mine long to develop 1,500 HP.

SALT LAKE CITY, UTAH.—The Merchants' Lighting Co. has been organized to build an electric plant, to cost $50,000. H. C. Edwards is interested.

OTTAWA, ONT.—The Consumers' Electric Co. has deposited $5,000 as a guarantee that it will within a year supply 10,000 incandescent lights. J. W. McRae, H. K. Egan and Alex Fraser are interested.

BRIDGES.

ELLSWORTH, ME.—Bids are asked until Aug. 3 for erecting a street bridge on granite foundation at Ellsworth Falls. L. B. Wyman, Cy. Clk., informs us that the structure will have three spans of lengths 55.5, 67.5 and 55.5 ft., respectively, and 18 ft. width. Plans are now on file at the city hall. G. B. Stuart, Chn. Bridge Com.

BOSTON, MASS.—Local papers state that the bridge advocates of Pawtucket, R. I., have procured plans for a 4-arch stone bridge to be built at Pawtucket Falls, costing about $135,000. The plans were prepared by Beckford & Graves, of Salem and Lowell.

HOPEDALE, MASS.—C. M. Day, Secy. Rd. Comrs., writes us that the plans and specifications for the new street trestle bridge, about 800 ft. in length, are now in the hands of contractors.

SPRINGFIELD, MASS.—Chas. M. Slocum, Cy. Engr., writes us that the negotiations between the city and the N. Y., N. H. & H. R. R. to decide on the matter of building a bridge at St. James Ave. have not been concluded.

ONEIDA, N. Y.—The cost of the proposed bridge to eliminate the grade crossing of the Ontario & Western R. R. at Oneida Castle has been estimated at $92,450.

SCHAGHTICOKE, N. Y.—Supervisor Doty has asked the board of supervisors to make an appropriation of $2,000 to put the bridge in this town in proper shape.

TROY, N. Y.—Bids are asked until Aug. 1 for building one steel bridge, weighing about 3,000 lbs., for the Quackenkill pipe line of the water-works extension, as stated in our advertising columns. John Phelan, Comr. Pub. Wks.

MONTROSE, PA.—Bids are wanted by the county commissioners until July 30 for building the masonry for four bridges.

PITTSBURG, PA.—The contract for the construction of the masonry foundations for the big Monongahela bridge of the Pittsburg, Carnegie & Western R. R. was awarded on July 17 to George W. McMullin & Co., of New York. The work will cost in the neighborhood of $250,000, and will be started at once and be pushed to completion.

READING, PA.—The plans of the proposed Front St. bridge will be presented before the councils by City Engineer Murdock at the next meeting. It has been suggested that the city build the approaches. An appropriation of $13,500 will be made by the councils.

STEWARTSVILLE, PA.—The freeholders have decided to build a new iron bridge across the Musconetcong Creek at Bloomsbury.

BALTIMORE, MD.—The county commissioners have appointed John P. Chilcoot, Chn. Bd. Road Comrs.; William Parks and W. W. Crosby to investigate the necessity of building a bridge over the stream crossing the road from the York Turnpike to the Falls Road, near Texas. W. W. Crosby, Henry Frankenberger and Chas. G. Snavely are appointed to decide on the building of a bridge crossing White Marsh Run, 11th District.

WOODSTOCK, VA.—The county court has appropriated $5,000 for the erection of a steel road bridge across the Shenandoah River near Mt. Jackson.

MT. PLEASANT, TENN.—Granbery Jackson, Engr., of this place, and at 211 Union St., Nashville, writes us that plans are now under way for a pony-truss steel bridge over Sugar Creek at Mt. Pleasant, to cost about $750. Bids will be asked in about two weeks.

CANTON, O.—The county commissioners have decided to build the bridge on the county line, southeast of Alliance.

CINCINNATI, O.—The board of public service has decided to go ahead with the construction of the Harrison Ave. viaduct. Bonds will be issued. The structure will cost about $250,000.

CLEVELAND, O.—James Ritchie, Consulting Engr. Grade Crossing Com., 413 Chamber of Commerce, writes us that plans have been prepared and submitted to the railroad company for abolishing the grade crossings on the Lake Shore & Michigan Southern R. R. at Detroit St., Gordon Park Ave., Hoyt Ave., Case Ave., Cue St. and West Madison St.——The board of control has recommended the adoption of order to authorize the director of public works to prepare plans for the reconstruction of the drawbridge over the Cuyahoga River at Jefferson St.

COLUMBUS, O.—The county commissioners have awarded contracts for the construction of a joint bridge over Black Lick Creek as follows: Substructure, Swartz, Keane & Sieber, $2,985; superstructure, Mt. Vernon Bridge Co., $3,480.

ZANESVILLE, O.—Bids are asked until Aug. 13 for constructing the superstructure of a draw span at the easterly end of the new "Y" bridge over the lateral canal of Muskingum River at this place. Jas. L. Starkey, County Audr.

TERRE HAUTE, IND.—The county commissioners have accepted the plans of Howe & Starbuck, Engrs., for the new bridge across the Wabash River.

DANVILLE, ILL.—Local papers state that the contract for the bridge over the Swift crossing of Middlefork, near Glenburn, has been let to John Beard, at $3,295.

MONMOUTH, ILL.—The county commissioners have already contracted for $10,000 worth of bridge work, and it is stated that $10,000 more will be needed to put all the bridges in repair.

OTTAWA, ILL.—The following bids were received for the erection of the Serena-Mission bridge across the Fox River: C. C. Jacobs, Amboy, $14,600; Clinton Bridge & Iron Co., $10,799; Joliet Bridge & Iron Works, $10,190; King Bridge Co., Cleveland, $9,850; American Bridge Co., $9,600; Massillon Bridge Co., $9,500; Indiana Bridge Co., $9,650 (accepted).

MARINETTE, WIS.—The county supervisors have decided to build a bridge across the Menominee River to connect the towns of Quinnesec, Mich., and Niagara, Wis. The bridge will cost about $6,000, and the expense will be shared by Marinette and Dickinson counties.

MILWAUKEE, WIS.—A resolution is before the council calling for the issuance of $320,000 in bonds for the construction of a viaduct across the Kinickinic Valley.

PLATTEVILLE, WIS.—Bids are asked until July 25 for the construction of an iron bridge, 26-ft. span, 14-ft. roadway, over the Rountree branch of Mitchell Hollow Road. P. Hendershot, Jr., Cy. Clk.

KANSAS CITY, KAN.—Bids are asked until Aug. 12 for building a wooden bridge on stone abutments. Frank M. Holcomb, County Clk.

TOPEKA, KAN.—The bridge between Pauline and Wakarusa was destroyed by fire on July 14. It will probably be replaced by the Atchison, Topeka & Santa Fe R. R. by a steel structure.

WHITE SULPHUR SPRINGS, MONT.—Bids are reported wanted until Sept. 3 for the construction of a highway bridge across Smith River. Geo. W. Harden, Clk. County Comrs.

CARROLLTON, MO.—Bids are asked until Aug. 6 for building four bridges. Silas Ballard, Bridge Comr.

CARTHAGE, MO.—Bids are asked until July 29 for repairing the White Oak bridge. T. V. Grief, County Surv.

BAY CITY, TEX.—Jesse Matthews, County Judge, Bay City, informs us that the matter of building a bridge across the Colorado River will be taken up by the county court at its meeting on Aug. 12. The plans and specifications will probably be ordered prepared then.

SEATTLE, WASH.—The Seattle Electric Co. has completed the plans and specifications for the viaduct over the C. & P. S. tracks on Fourth Ave., to be about 2,600 ft. in length. Contracts will be let at once.

TACOMA, WASH.—Local papers state that the council has passed the ordinance appropriating $4,000 for the construction of a bridge across the Puyallup River on the tide flats.

SAN JOSE, CAL.—Bids are asked until Aug. 6 for constructing a steel or stone bridge on Saratoga Turnpike at Long Bridge. Henry A. Pfister, Clk. Bd. Supervisors.

LOS ANGELES, CAL.—The Pajaro Valley Consolidated R. R. of California has let a contract for the reconstruction of a bridge over the Pajaro River near Watsonville, to cost about $11,000.

SAN MATEO, CAL.—The question of issuing $27,500 in bonds for the construction of concrete arch bridges in this city to replace the present wooden structures has been favorably voted on.

STOCKTON, CAL.—Bids are asked until Aug. 6 for erecting a steel span bridge over French Camp slough on Gravel Road, and a steel span over Calaveras River on Cherokee Lane Road. Otto Grunsky, Clk.

BUILDINGS.

BOSTON, MASS.—Bids are asked until July 29 for building an addition to Bigelow School building and for furnishing the heating and ventilating system in the addition. Wm. F. Merritt, Chn. Com. on Bldgs.

BOSTON, MASS.—The New England Structural Co. of Boston, will furnish the steel framework and ornamental ironwork for the new 10-story Walker Building on Boylston St. Winslow & Bigelow, Archs.

HOPKINTON, MASS.—Bids are asked until July 29 for erecting a new brick town hall; to cost about $20,000. D. J. O'Brien, Clk.

NEWTON, MASS.—The following architects have submitted plans for the new Mason school building at Newton Center: Kendal, Taylor & Stevens; Hartwell, Richardson & Driver; Dwight & Chandler; Bacon & Hill and J. Walter Paine.

SPRINGFIELD, MASS.—Bids are asked until Aug. 14 for erecting a school building at Chestnut and Prospect Sts. Ed. J. Murphy Chn. Cy. Property Com; E. C. & C. Gardner, Archs., 33 Lyman St.

NEWPORT, R. I.—Bids are asked until July 26 for constructing quarters for engineer and assistant at Fort Greble. H. P. Young, Q. M.

PAWTUCKET, R. I.—Bids are asked until July 25 for alterations to the Garden St. school and other school buildings in the city. T. P. Corcoran, Clk. School Com.

BEDFORD, N. Y.—Bids are asked until Aug. 7 for constructing a hospital building at the New York State Reformatory for Women. James Wood, Pres. Bd. Mgrs.

BUFFALO, N. Y.—A. A. Post, Arch., 420 Mooney-Brickard Bldg., informs us that the contracts for the church and rectory for Rev. D. Walsh have been let as follows: Masonry—Thos. Brown; Carpenter work—P. J. O'Brien; Cut stone—M. Slack. The building will be of Medina sandstone, 82x180 ft., and will cost $65,000.

BUFFALO, N. Y.—Local papers state that the Lehigh Valley R. R. Co. has awarded the contract for building the new freight house and docks at Tifft Farm to replace those recently destroyed to A. F. Chapman & Co., of this city, at about $100,000.

JAMAICA, L. I.—Plans have been filed by Deputy Superintendent of School Buildings Collins, of Queens, for a new 3-story brick school in Laurel Hill, to be 62 × 111 ft., and 73 ft. high; to cost about $100,000. It will be of limestone and terra cotta.

NEW YORK, N.Y.—The plans of Joseph H. Freedlander, Arch., 244 Fifth Ave., for the National Home for Disabled Volunteer Soldiers, have been accepted by the Managers. The cost of the buildings will be about $1,000,000. The site is near Johnson City, Tenn. Ground will be broken at once, and it is believed that the institution will be ready for occupancy by Jan. 1, 1904.——The D. Frank Dodge Scenic Studio Co. has been incorporated with a capital stock of $75,000. The company will erect a building in 55th St., near Ninth Ave. D. Frank Dodge, Pres.; F. C. Whitney, Geo. W. Lederer and Wm. A. Brady are interested.——The New York Dock Co. has been incorporated with $17,000,000 capital stock, to do a general wharfage, storage and warehouse business. F. P. Olcott, Adrian Iselin, Jr., and Frank H. Sickels, New York, are interested.——The New York Realty Co. has sold the Kemp Building, at the corner of William and Cedar Sts., which will be demolished and a new 15-story office building erected.——R. H. Macy & Co. have secured the Koster & Bial music hall property in 34th St., between Broadway and Seventh Ave., making the entire plot for their new building, 180 × 405 × 380 ft. Plans have been filed for the New buildings. De Lemos & Cordes, Archs.

NEW YORK, N. Y.—Plans have been filed by Ida J. Walker, Irvington, N. Y., for a 6-story brick flat, 50 × 86 ft., at 246-8 West 128th St., to cost about $100,000. C. Abbott French, Arch, 406 West 42d St.; by James L. Van Alen, Newport, R. I., for a 6-story brick factory, 36 × 38 ft., at 16th St. and Seventh Ave., to cost about $60,000. Clinton & Russell, Archs., 32 Nassau St.; by W. J. Taylor, 495 Fifth Ave., for a 7-story brick studio, 75 × 85 ft., at 67th St., near Columbus Ave., to cost about $150,000. D. M. B. Sturgis and B. H. Simonson, Archs., 102 East 17th St.; by the Sailors' Snug Harbor, 31 Nassau St., for a 6-sty brick lofts, 25 × 90 ft., at 45 East 8th St., to cost $25,000. F. E. Albingen, Arch., 41 East 8th St.; for alterations to the building at 43-5 West 56th St., owned by W. W. & T. M. Hall, 71 East 42d St., to cost about $80,000. Welch, Smith & Provost, Archs., 11 East 42d St.; by R. H. Macy & Co., 14th St. and Sixth Ave., for a 9-story brick store, 179 × 405 × 380 ft., at 34th and 35th Sts. and Broadway. De Lemos & Cordes, Archs., 139 Fulton St.; by Henrw D. Babcock, 21 West 49th St., for a 5-story brick dwelling, 25 × 47 ft., at 22 East 52d St., to cost $40,000. Clinton & Russell, Archs.; by William Foster, 207 East 54th St., for four 5-story brick dwellings, 37 × 23-ft., in 5th St., west of White Plains Ave., to cost $48,000. Louis Falk, Arch., 2785 Third Ave.; by Wm. H. Bolton, 177th St. and Boston road, for a 4-story dwelling, 40×70 ft., in 87th St., east of Fifth Ave., to cost about $200,000. Janes & Leo, Archs., 124 W. 45th St.

LAWRENCEVILLE, N. J.—The contract for the erection of a new gymnasium for the Lawrenceville school has been let to Thompson, Starrett & Co., New York, at about $80,000.

NEWARK, N. J.—Bids are asked until July 25 for erecting a public bath house. J. Crowell Mundy, Gen. Supt.

GROVE CITY, PA.—The authorities of Grove City College have decided to build a new women's dormitory, to be four stories, and to cost $35,000.

HARRISBURG, PA.—We are informed that no contracts have been awarded as yet for the new Y.M.C.A. building, 106 × 80 ft., and five stories high, to cost about $75,000. The plans for the building may be changed.——Local papers state that the Philadelphia & Reading R. R. will shortly advertise for bids for building a new passenger and freight station. A roundhouse will also be erected at Rutherford.

NORRISTOWN, PA.—The trustees of the State Hospital have arranged for the expenditure of the $128,000 recently appropriated by the legislature for improvements to the institution. The leading item in the appropriation is one of $100,000 for the erection of nurses' homes; the remainder is apportioned as follows: infirmary for consumptives, $5,000; laundry enlargements, $1,000; steam plant improvements, $3,000; piggery and storage room, $5,000; refrigerating plant, $10,000, and $2,500 for the extension of the sewerage system.

NORRISTOWN, PA.—J. F. Stuckert & Son, Archs., 49 North 13th St., Philadelphia, have prepared plans for a 6-story brick and iron store and office building, to be erected here at a cost of about $50,000.

PHILADELPHIA, PA.—Cope & Stewardson, Archs., 320 Walnut St., are said to be ready to receive bids for the new medical laboratory to be erected by the University of Pennsylvania on the college grounds. The building will be 4 stories and will cost about $230,000.——Plans have been filed by Armstrong & Printzenhoff for a one-story structure of brick and steel truss construction, to be 359 × 150 ft., costing about $75,000.——The contract for building the new apartment house for the Arlington Hotel & Improvement Co. is reported to have been let to Machin & Brown, builders. The plans were drawn by Milligan & Webber, Archs., 520 Walnut St.

PHILADELPHIA, PA.—Bids are asked until July 30 for repairs to certain schools. A. F. Hammond, Secy. Bd. Education.

PITTSBURG, PA.—A building permit has been issued to W. N. Frew for a 2-story dwelling in Fifth Ave., 23d Ward, to cost $50,000.——A permit has been issued for the 19th Ward school, to be erected in Margaretta St., between North Highland Ave. and Beatty St. The building will be of brick, two stories, 186 × 91 ft., and will cost $160,000.——The Knights of Columbus of Pittsburg and Allegheny are preparing to build a building at Craig and Filmore Sts., to cost $75,000.——The Pittsburg & Lake Erie R. R. has decided to erect a new warehouse on the site of the old Atterbury glass house. It will be seven stories high and will cost about $2,000,000.

READING, PA.—Geo. W. Beard & Co. have received the contract for the erection of the new ash-conveyer building, closet building, plumbing, machinery foundations, cement and concrete work, etc., for the new locomotive shops on North 6th St., the aggregate cost being about $75,000.

WARREN, PA.—Plans have been prepared by Bailey & Truscott, Archs., Pittsburg, for a new bank building for the Warren Savings Bank.

BALTIMORE, MD.—E. D. Preston, Building Inspector, has begun making repairs to 19 of the city school buildings, which will cost about $60,000.

ELKTON, MD.—The school commissioners of Cecil county have decided to erect a new school at Leslie.

WASHINGTON, D. C.—Bids are asked until Aug. 2 for the construction of an extension to the government hospital for the insane at Washington. E. H. Hitchcock, Secy. Dept. of the Interior.——The Gladstone Apartment House Co. intends to erect a 5-story fireproof building at 1419 R St., N.W., estimated cost $75,000.——The American University trustees intend shortly to start the erection of the Pennsylvania Hall of Administration, at an estimated cost of $450,000; also the Ohio College of Government, at a cost of $200,000.——The following bids were received by the bureau of yards and docks on July 13 for a steel roof for the miscellaneous shop for ordnance, navy yard, Washington: Snare & Triest, 39 Cortlandt St., New York, $5,273; Penn Bridge Co., Beaver Falls, $4,937; J. W. Taliaferro & Co., 209 Sterling Pl., Brooklyn, $6,440; American Bridge Co., Continental Trust Bldg., Baltimore, $4,731.

WASHINGTON, D. C.—Bids are asked until Aug. 8 for constructing the new buildings at the U. S. quarantine station, Cape Charles, Fisherman's Island, Va. James Knox Taylor, Supv. Arch., Treasury Dept.

ALEXANDRIA, VA.—Bids are asked until Aug. 9 for installing plumbing and steam heating apparatus in two sets of officers' quarters at Fort Washington, Md. Abe S. Bickham, Capt. and Q. M., 419 North Washington St.

LYNCHBURG, VA.—It is stated that Mr. and Mrs. Thos. F. Ryan, of New York, have purchased a lot in this place on which they will erect a non-sectarian hospital, to cost about $100,000.

PHILIPPI, W. VA.—Bids are asked until Aug. 19 for erecting a court house and jail. J. E. Stewart, Pres. County Court.

JACKSONVILLE, FLA.—The board of trustees of the Florida Agricultural College have decided to build a new Science Hall and gymnasium. The donation of $10,000 has been made by Henry M. Flagler for the latter building. It will be 130 × 40 ft. Snelling & Potter, Archs.——Among the churches destroyed by the recent fire that are going to be rebuilt are the Trinity M. E. Church, to cost $30,000, plans being prepared; the First Baptist Church, to cost $25,000; the Congregational Church, $20,000; the St. John's Episcopal Church, $50,000; the Church of the Immaculate Conception, $40,000; the McTyeire Methodist Church, $15,000; Jewish Synagogue, $10,000, work to begin at once.——Local papers state that West Bros., of Westlake, Fla., will erect a new $60,000 office building at Bay and Main Sts., to be five stories high, 75 × 70 ft.

JENNINGS, LA.—The Citizens' Bank of this city will erect a new building, to cost about $25,000.

NEW ORLEANS, LA.—The following bids were received by the finance committee at their last meeting for building a new jail building: W. T. Carey & Bros., $107,197; F. A. Nouliet, $112,800; W. U. Mills & Co., $117,770; Glover & Sicard, $127,445.

SHREVEPORT, LA.—The hospital board has appointed J. H. Jordan, T. B. Chase and W. E. Hamilton to look into the matter of erecting a new hospital building, to cost between $50,000 and $75,000.

NASHVILLE, TENN.—W. R. Polston has had plans prepared for a $75,000 addition to Utopia Hotel, to be seven stories high, with freight and passenger elecators, and electric lighting.

CINCINNATI, O.—The board of public service has rejected all the bids received for the Wade St. market being above the estimate. New bids will be advertised for

CLEVELAND, O.—The Spencerian College Co., of this city, will erect a new building, 134 × 360 ft., to cost about $150,000.——Plans have been filed for the new building for the Brown Hoist Co., in St. Clair St., to be three stories, 113 × 140 ft.

MANSFIELD, O.—The county commissioners have decided to issue $50,000 in bonds for court house improvements.

SHAWNEE, O.—Bids are wanted by the county commissioners until Aug. 1 for the erection of a school building.

MUNCIE, IND.—The council has selected a site for the Carnegie Library at Jackson and Jefferson Sts. The structure will cost $50,000.

TERRE HAUTE, IND.—D. W. Gardiner, of this city, has been appointed superintendent of construction of the Science Hall, at De Pauw University, for which D. W. Minshall, of this city, gave $50,000.

DETROIT, MICH.—The library commissioners have accepted the offer of Andrew Carnegie to give $250,000 for the erection of a central and branch libraries in this city.——Donaldson & Meier, Archs., have completed plans for the laboratory for Parke, Davis & Co., to be erected at the foot of McDougall Ave., to be 160 × 60 ft. and three stories. It will cost $60,000. Contracts have been let.

CHICAGO, ILL.—Bids are asked until Aug. 11 for the construction of the boiler plant, laundry fixtures and heating apparatus of the new boiler house, isolation ward, etc., for the new marine hospital in this city. Walton Wyman, Supervising Surgeon-Gen., M. H. S., Washington, D. C.——It is stated that Jenney & Mundie, Archs., N. Y. Life Bldg., will design the new club house for the Union League Club, to be five stories, 50 × 100 ft., and to cost $275,000.——Holabird & Roche, Archs., 1618 Monadnock Block, have completed plans for a 6-story building to be erected at Michigan and Franklin Sts. by the Newberry Library. It will be 80 × 100 ft., and will cost about $90,000. The Turner Brass Works will occupy the building.——W. P. Henneberry will soon commence the construction of a 6-story building at Polk and Clinton Sts., to be 102 × 114 ft. It will be of mill construction, equipped with passenger and freight elevators, costing about $75,000.——L. M. Mitchell, Arch., has designed for Sherman T. Cooper two 3-story apartment houses to be built at 4606-12 Indiana Ave., costing about $60,000; also for a 3-story apartment house for the same owner at 4836-8 Indiana Ave., to be 44 × 84 ft., and to cost $30,000; and will soon commence work on plans for a 3-story apartment at 4715-17 St. Lawrence Ave., 46 × 60 ft., to cost $25,000.——A. Sandegren, Arch., has drawn plans for two 3-story apartments, one in Kenmore Ave. and the other in Leland Ave., to cost $60,000.——Wilson & Marshall, Archs., are at work on plans for an apartment house at Cottage Grove and 49th St., to cost about $100,000. It will be four stories, 100 × 140 ft.

MILWAUKEE, WIS.—A building permit has been issued to Mrs. Olivia Drew for an apartment house at Ninth and Week Sts., to cost about $55,000.

DES MOINES, IA.—Proudfoot & Bird, Archs., have completed plans for the West Des Moines high school building, to be two stories, 134 × 162 ft., and to cost $75,000. Contracts will probably be let by the school board by Aug. 1.

MANKATO, MINN.—Jardine, Kent & Jardine, Archs., 1262 Broadway, New York, write us that contracts for the erection of the public library building at Mankato, Minn., will be let between Aug. 15 and Sept. 1. It will be one story, 92 × 85 ft., fireproof, of stone and brick construction, and will cost about $50,000. The building will be equipped with electric and gas light, and be steam.

MINNEAPOLIS, MINN.—The local lodges of the Independent Order of Good Templars are formulating plans for the erection of five buildings in this city for auxiliary orders, which will cost about $75,000.

OLIVIA, MINN.—J. T. Brooks, County Audr., writes us that the contract for the basement of the new court house will be let on July 29. The structure will cost about $75,000. It will be two stories, 84 × 109 ft.

ORTONVILLE, MINN.—Bids are asked until Aug. 17 for the erection of a court house, to cost about $30,000. H. L. Zwiener, County Audr.

ST. CLOUD, MINN.—Bids are asked until Aug. 1 for erecting a public library building. H. C. Ervin, Secy.

ST. PAUL, MINN.—Plans are being prepared by D. R. Noyes, of Noyes Bros. & Cutler, Archs., for a block for H. L. Collins & Co., to cost about $75,000.

MANHATTAN, KAN.—Reports state that the contract for erecting the new chemical building at the Kansas Agricultural College at this place has been let to C. A. Follows, of Topeka, at $56,581.

GREAT FALLS, MONT.—The contract for the Cascade county court house at this place has been let to Lease & Richards, of Great Falls, at $180,000.

HELENA, MONT.—The contract for the erection of the Helena Federal building has been awarded to the Congress Construction Co., of Chicago, at $268,717, and work will be started at once.

ST. LOUIS, MO.—It is stated that S. H. Leathe, the owner of the block from 20th to 21st Sts., will erect an 8-story building, covering the entire block. The Mayfield Woollen Mills Co. expects to use all or most of the building.

ST. LOUIS, MO.—The following bids were received by the board of public improvements on July 19 for the construction of four new city hospital pavilions: Nicholas Pelligreen, $150,900; Herman Construction Co., [illegible]; Robert Paulus, $184,873; James Black Construction Co., $171,900; Gillick Bros., $159,218; John Low, $163,400; Francis McCabe, $162,507; Viernow-Mysenburg Construction Co., $163,476; Jean Jamison Construction Co., $173,920.

AUGUSTA, ARK.—The county court has appropriated $40,000 for the erection of a court house and jail at Augusta and a court house and jail at Cotton Plant. T. H. Conner has been appointed commissioner to erect the buildings.

HOUSTON, TEX.—Bids are wanted by the Southern Pacific Co. until July 31 for building a passenger depot for the G. H. & S. A. Ry. at Walnut and East Commerce Sts., San Antonio. E. B. Cushing, Engr. Maintenance of Way.

CANYON CITY, ORE.—Bids are asked until July 31 for repairs to the county court house. R. R. McHaley, Clk. County Court.

BAKERSFIELD, CAL.—Bids are asked until Aug. 10 for furnishing the county jail with steel cells. I. L. Miller, Clk. Supervisors.

SALT LAKE CITY, UTAH.—H. H. Mahler, Arch., informs us that bids will be received until July 25 for the erection of a 4-story college building, 85 × 185 ft., at a cost of $45,000, to be of brick, stone and steel, and steam heated.

ST. JOHNS, N. B.—A movement is on foot to erect a municipal building, to accommodate all the city and county officials.

MONTREAL, QUE.—Bids are asked until Aug. 20 for constructing a grain elevator of 1,000,000 bu. capacity, as described in our advertising columns. David Heath, Secy.

WATER-WORKS.

LYNN, MASS.—Bids were asked by the water board until July 20 for furnishing and installing a 30,000,000-gallon pumping station.

BOSTON, MASS.—We are informed that the Metropolitain Water and Sewerage Board will soon ask for bids for constructing the remaining masonry sections of the

200,000,000-gallon aqueduct. The new work will be let in three contracts of nearly equal lengths; the total to be let is about 3½ miles in Wayland and Weston. On one section there will be about 500 ft. of tunnel. F. P. Stearns, Ch. Engr.

FORT GREBLE, R. I.—Bids are asked until Aug. 8 for constructing a pump house, a pumping system, etc.; as stated in our advertising columns. H. P. Young, Q. M., U. S. A., Newport, R. I.

WATCH HILL, R. I.—The committee has submitted a report on the proposed new water supply. Sam'l M. Gray, Consult. Engr., Providence, R. I.; Geo. A. Pope, Chn.

COLLINSVILLE, CONN.—We are informed that the Collinsville Water Co. was formerly organized July 22, and that it will begin the construction of works at once. Pop., 3,000. Emil Fisher, Pres.; H. C. Fisher, Secy. and Treas.; H. W. Ayres, Engr., Hartford, Conn.

BATAVIA, N. Y.—W. F. Haitz, Mayor, Aldermen Lewis, Sudan and Ott, J. W. Holmes, Cy. Engr., and E. J. Hogan, Cy. Clk., have been investigating the question of improving the water supply, electric lighting, etc.

BATH, N. Y.—A. Beekman, R. R. Byon and Dr. J. O. Aldrich are on a committee to investigate the question of the municipal ownership of the works which has recommended the purchase for $40,000. The city of Owego is also considering the question.

BINGHAMTON, N. Y.—Bids are asked until Aug. 7 for building over the filter plant. John Anderson, Secy. Water Comrs.

CARTHAGE, N. Y.—An election will soon be held to vote on the question of issuing bonds for extending the works.

GOSHEN, N. Y.—It is proposed to issue $20,000 in bonds for improving the water supply.

HAVERSTRAW, N. Y.—The Haverstraw Water Supply Co. has been incorporated with a capital of $130,000 by J. D. Reynolds, of New York; H. A. V. Post, of Babylon, L. I., N. Y., and C. C. Wheeler, of Bayonne, N. J.

SARANAC LAKE, N. Y.—An election was held July 23 to vote on the question of issuing $50,000 in bonds for a new water supply.

SAUGERTIES, N. Y.—Bids are asked until Aug. 7 for constructing a dam and reservoir, as stated in our advertising columns. S. Y. Knight, Supt.; H. C. Bogardus, Secy.

SENECA FALLS, N. Y.—A proposition for new works is being considered by the trustees.

SLINGERLANDS, N. Y.—J. Warren Lamb, of Cooperstown, N. Y., is reported to have been awarded the contract for works for this place to cost $30,000.

TROY, N. Y.—Plans for the new water from Tomhannock Creek have been completed. John Phelan, Comr.

ATLANTIC CITY, N. Y.—W. C. Hawley, Supt., writes us that no bids were received July 22 for ball joint water pipe. The city will advertise again.

PORT ORAM, N. J.—L. L. Tribus, 84 Warren St., New York, has been retained to report upon and prepare plans for works.

ARCHBALD, PA.—The Scranton Gas & Water Co. has purchased the Archbald works, and, it is understood, will make improvements.

BEAVER, PA.—The Allaire Water Co. has been incorporated with a capital of $50,000 by Jas. W. Brown, of Pittsburg, Pa.; W. H. Minich, Chas. M. Brown and Louis B. Hays.

FLORENCE, PA.—Bids are asked until 8.30 p. m., July 25, for constructing works, to include a dam, mains, etc. C. P. Collins, Engr., Dibert Block, Johnstown, Pa.

HARRISBURG, PA.—A resolution is before the council appropriating $10,000 for two boilers.

LEBANON, PA.—The city of Lebanon, owing to errors in its method of awarding the contract for the building of the Poplar Run extension of the Hammer Creek water supply, is compelled to readvertise and to make another award. J. D. Kerr, Secy. Water Bd.

MACUNGIE, PA.—The matter of improving the water supply is being considered.

PHILADELPHIA, PA.—Bids are asked until July 29 for low-service pumping machinery, water pipe, castings, trenching, traveling crane, filtering materials, sand, testing station, etc., to cost in all over $1,000,000. Wm. C. Haddock, Dir. Pub. Wks. Dept.——Maurice F. Talty and W. H. H. Allen, of Washington, D. C., have the contract for removing 240,000 cu. yds. of earth for the Lower Roxborough filter bed at Philadelphia. This is the first of a series of filter beds, the total excavation for which will be in the neighborhood of 1,000,000 cu. yds.

HYATTSVILLE, MD.—Rosser & Castoe, Bellaire, O., have been awarded the contract at $8,756 for new works. Other bids were submitted by Crook, Horner & Co., Baltimore, Md.; Jos. A. Blundon, Riverdale, Md.; Blackstone & Co., Piedmont, W. Va., and a Mr. Lyon, of Washington, D. C. M. V. Tierney, Mayor; Frederic Minshall, Engr., Norfolk, Va.

TRYON, N. C.—The question of issuing $25,000 in bonds for works, electric plant, etc., is being considered, according to reports. P. H. McDonnald.

MONTEZUMA, GA.—Reports state that the council is receiving bids for constructing the works.

GREENWOOD, MISS.—Bids are asked until Aug. 16 for constructing works, sewerage system and electric plant. R. H. Hicks, Mayor.

HATTIESBURG, MISS.—Reports state that Capt. T. W. Nichols, of Mobile, Ala., has been awarded the contract for new works.

OCEAN SPRINGS, MISS.—A company has been formed to build works. Jos. Kotzum, Pres.; E. W. Illing, Secy.; F. J. Lundy, Treas.

KNOXVILLE, TENN.—The Knoxville Water Co. has filed a mortgage with the American Loan & Trust Co., of Boston, Mass., for $1,000,000, part of which is for improvements.

TULLAHOMA, TENN.—The council has sold $35,000 of bonds for the proposed works and electric plant to N. A. Harris & Co., of Chicago. The city engineer is making surveys and plans for the improvements.

CINCINNATI, O.—The Holly Mfg. Co., of Lockport, N. Y., has been awarded the contract at $13,300 for constructing and installing three self-contained vertical, triple-expansion engines, of 25,000,000 gallons capacity each, also three crank and flywheel engines of 12,000,000 gallons capacity each, and an electric crane.

CONNEAUT, O.—The water board proposes to build a new intake, boilers, mains, etc., for the works.

LOUDONVILLE, O.—L. E. Chapin, of Canton, O., has submitted a report on works to cost about $30,000.

COLUMBUS GROVE, O.—An election will be held Aug. 5 to vote on the question of issuing $30,000 in bonds for works.

COVINGTON, O.—The question of issuing bonds for works and an electric plant will soon be voted upon. C. O. Lucas, Engr., Greenville, O.

NEWARK, O.—The question of issuing bonds for municipal works will probably soon be voted upon. The franchise of the Newark Water Co. expires in 1905.

NEWCOMERSTOWN, O.—This place has voted to grant a 25-year franchise for works to S. F. Potter, of Greensburg, Pa., and Prof. J. H. Beal, of Scio, O.

XENIA, O.—Bids are asked until July 30 for constructing a steel water tower and tank, piping, heater, etc., at the Soldiers' Home. T. M. Heller, Arch., Delaware, O.; C. L. Young, Supt. of Home.

KNOX, IND.—We are informed that the Knox Water, Light, Heat & Power Co. wishes to let contracts about Aug. 15 for furnishing 30 hydrants, four miles of pipe, a standpipe 10 ft. in diameter and 100 ft. high, etc., to cost about $30,000. Pumps will also be wanted. O. A. Garner, Engr. J. A. Garner is interested.

LEBANON, IND.—Bids are asked until Aug. 2 for constructing a reservoir and making other improvements to the works, to cost about $35,000. The mains will be extended on East Washington St. J. W. Fulwider, Cy. Engr.

HARTFORD, MICH.—Reports state that this place proposes to enlarge its works.

PONTIAC, MICH.—This place has voted to issue $50,000 in bonds for improving the works.

BREESE, ILL.—Arrangements for the construction of works are being made. Address Mayor Dorries.

JOLIET, ILL.—The council has decided to spend about $15,000 in new machinery for the improvements to the works. The council is said to have abandoned the proposition for a new water supply, suggested by D. W. Mead, of Chicago.

MARSEILLES, ILL.—It is stated that arrangements are being made for building works. Address Mayor Stebbins.

MOLINE, ILL.—The board of local improvements will ask for bids at once for laying a 12-in. main to Stewartville.

PARIS, ILL.—The following bids were received by the water board on July 15 for a triple expansion pump: Laufketter-Gendit Co., triple expansion pump, 2,500,000-gallon capacity, 18-in. stroke, $5,398, and old pump; Deane Steam Pump Co., Holyoke, Mass., triple expension, 2,500,000-gallon pump, 24-in. stroke, $5,993; Snow Steam Pump Works, Buffalo, N. Y., triple expansion pump, 3,500,000-gallon capacity, 24-in. stroke, $8,428; Laidlaw-Dunn-Gordon Co., Cincinnati, triple expansion, 2,500,000-gallon capacity, 18-in. stroke (compound Corliss pattern), $6,800; same pump with Meyers valve gear, $5,800; H. R. Worthington, Brooklyn, N. Y., triple expansion, 2,500,000-gallon pump, $5,500; 3,000,000-gallon, same pattern, $6,000; 1,750,000-gallon, same pattern, $4,660.

AMERY, WIS.—Fairbanks, Morse & Co., St. Paul, Minn., have been awarded the contract at $5,900 for constructing works, the wells for which are to be sunk by N. Hanson, of Minneapolis.

LACROSSE, WIS.—The council has appropriated about $80,000 for improving the works, according to reports.

STURGEON BAY, WIS.—W. H. Wheeler, of Beloit, Wis., has been granted a franchise for works and an electric plant, to cost $84,000.

WAUPUN, WIS.—Bids will be asked at once by the state board of control, Madison, Wis., for a water tower at the state prison, to cost $6,000.

AYRSHIRE, IA.—It is stated that this place, Ruthven, Mallard and Graettinger propose to build works.

BOONE, IA.—Bids are asked until July 31 for furnishing the materials and for constructing works to consist of 3,300 ft. of 8 and 6-in. pipe, 7 hydrants, valves, etc. C. E. Russell, Cy. Engr. and Supt. Water-Works.

BURLINGTON, IA.—Judge E. S. Huston is reported to have submitted a proposition to the city for new works.

GRINNELL, IA.—J. C. Goodrich, Supt., writes us that J. P. Miller & Co., of Chicago, have been awarded the contract for sinking a well 2,000 ft., at about $9,000.

LANSING, IA.—This place voted July 22 on the question of issuing bonds for works.

RICEVILLE, IA.—Bids were received July 16 for constructing works. Jackson & Moss, Engrs., Des Moines, Ia.; S. R. Ure, Mayor.

SCHLESWIG, IA.—E. C. Archibald, Engrs., of Denison, Ia., writes us that he has the contract to sink a well for a water supply. The contract for the mains, standpipe, etc., will not be let until water is secured. Pop., 1,000.

ARCADIA, NEB.—This place proposes to build works, according to reports.

LAUREL, NEB.—The question of issuing bonds for works will be voted on Aug. 6. Arnold C. Koenig, Engr., Grand Island, is preparing the plans. M. H. Dodge, Clk.

PIERCE, NEB.—A. C. Koenig, of Grand Island, has been engaged to prepare plans, etc., for works. L. R. Herbert, Clk.

BROOKINGS, S. DAK.—Bids are asked until Aug. 7 for constructing works and extending the electric plant. Loweth & Wolf, Engrs., First National Bank Bldg., St. Paul, Minn., and 1440 Marquette Bldg., Chicago; G. A. Mathews, Mayor.

WEBSTER, S. DAK.—This place will soon vote on the question of issuing $25,000 in bonds for works and an electric plant.

PARK RIVER, N. DAK.—Bids are asked by the Recorder until Aug. 12 for constructing works and an electric plant. Geo. Brambel, Engr., Mayville, N. Dak.

FARMINGTON, MO.—Correspondence regarding the sinking of a deep well for a water supply is desired by J. A. Sprott.

FAYETTE, MO.—The question of works is being considered.

KAHOKA, MO.—This place will vote on July 31 on the question of issuing $12,800 in bonds for works.

ST. JOSEPH, MO.—The question of laying a third water main, to cost about $70,000, is being considered by the St. Joseph Water Co.

BOONEVILLE, ARK.—A company is reported to have been formed to build works, an electric plant and an ice plant.

MALVERN, ARK.—The question of works and an electric plant is being considered.

OKLAHOMA CITY, OKLA. TER.—The board of water commissioners propose to sink a deep well for an increased water supply.

FORT WORTH, TEX.—The council has made a contract with Daniel W. Mead, First National Bank Bldg., Chicago, Ill., to install a system to supply 3,000,000 gallons of water a day. Bids for furnishing and installing water meters will soon be asked. W. G. Newby, Chn. Com.

EL PASO, TEX.—W. E. De Groot and Dr. Book, of Los Angeles, Cal., are reported as arranging for the immediate construction of the proposed works, to cost about $300,000.

POMEROY, WASH.—H. M. Thatcher writes us that this city recently voted to issue $14,900 in bonds for a water supply and a sewerage system. In a few days Mr. Thatcher expects to enter into a contract with the city to furnish water from a mountain stream 22 miles distant in a flume. The water will also be used for irrigation purposes. It is also expected that an electric plant, flour mill, sawmill, etc., will be built.

SPOKANE, WASH.—R. E. Clark, Secy. Bd. Pub. Wks., writes us that the contract for a standpipe foundation has been let to Geo. McKinzie, at $2,417, and that for the standpipe to the Gillette-Herzog Mfg. Co., of Minneapolis, Minn., at $8,397. Otto A. Weile, Engr.

WHATCOM, WASH.—E. C. Lyle, Cy. Engr., writes us that the city is considering the question of extending the mains with about 9,000 ft. of 20-in. c.-i. or 24-in. riveted steel pipe.

MITCHELL, ORE.—Reports state that Prof. W. J. Roberts, of Pullman, Wash., has made surveys for gravity works, to cost $5,000.

WHITNEY, ORE.—Reports state that this place will build works.

BAKERSFIELD, CAL.—Bids are asked until Aug. 5 for furnishing 14 fire hydrants, etc. A. T. Lightner, Cy. Clk.

KESWICK, CAL.—The Keswick Water Co. has been incorporated, with a capital of $75,000, by J. W. Hartwell, F. H. Sanderson and R. W. Farmer.

REEDLEY, CAL.—An election will be held Aug. 3 to vote on the question of issuing $12,000 in bonds for improving the irrigation system. W. P. Boone, Secy.

SANTA ANA, CAL.—The Western Coast Land & Water Co. has decided to build a pumping station near here, at a cost of about $14,000, besides making other improvements. W. B. Wetherbee and Maj. S. H. Finley, of Santa Ana, are interested.

PHOENIX, ARIZ.—The American Trust & Savings Bank, of Chicago, Ill., has secured the property of the Gila Water Co., for $500,000, and, it is stated, will extend the irrigation ditches, etc., at a cost of about $250,000. C. F. Ainsworth, Pres., Phoenix.

ARNPRIOR, ONT.—Bids are asked until Aug. 8 for the purchase of $50,000 of water and $25,000 of sewerage bonds. Arthur Burwash, Chn. Finance Com.

WALKERTON, ONT.—Bids are asked until Aug. 12 for the purchase of about $15,000 of bonds for water-works, sewers, etc. W. S. Gould, Town Clk.

SEWERAGE.

BELFAST, ME.—Cottrell & Stickney have been awarded the contract for constructing sewers, at $2,833.

BEVERLY, MASS.—Bids are asked by the sewer committee, board of aldermen, until Aug. 1 for building four miles of sewers, as stated in our advertising columns. Ernest W. Bowditch, Ch. Engr., 62 Devonshire St., Boston.

BOSTON, MASS.—Bids are asked by the metropolitan water and sewerage board, 1 Ashburton Pl., until Aug. 6 for building sewer in West Roxbury, Newton and Brookline, as stated in our advertising columns.

CAMBRIDGE, MASS.—A sewer about 450 ft. long will be constructed in Bolton St. Edward J. Brandon, Cy. Clk.

MELROSE, MASS.—An appropriation of $25,000 has been made for building sewers and surface drains.

METHUEN, MASS.—The contract for constructing sewers has been awarded to Chas. G. Craib & Co. Jos. S. Howe, Clk.; E. Worthington, Des. Engr., Dedham.

REVERE, MASS.—Bids are asked by the sewer commissioners until July 31 for building pipe sewer in Genessee St.; also for laying pipe drains in Webster St., Beachmont.

WHITINSVILLE, MASS.—A meeting will be held on July 29 to discuss the question of a sewage disposal plant.

HARTFORD, CONN.—Michael O'Neil has been awarded the contract for constructing the Preston St. sewer, at $2,500.

SIMSBURY, CONN.—A sewer over 4,000 ft. in length is to be built.

DUNKIRK, N. Y.—Bids are asked until Aug. 6 for constructing a 12-in. tile sewer in East Front St. J. P. Groesch, Cy. Clk.

SYRACUSE, N. Y.—Chas. A. Sweet, Cy. Engr., has estimated the cost of the proposed sewerage system at $760,000. Jos. H. Saunders, Cy. Clk.

TROY, N. Y.—Bids are asked until Aug. 1 for constructing 1,500 ft. of 4-ft. brick sewer, as stated in our advertising columns. E. R. Cary, Cy. Engr.

JERSEY CITY, N. J.—Bids are asked until July 30 for constructing a sewer in Rutgers Ave., approximately 2,870 lin. ft. 18-in. pipe, excavation, concrete, etc. Wm. A. Tolson, Clk. Bd. St. and Water Commissioners.

ALLENTOWN, PA.—Bids are asked by the Mayor until July 30 for constructing sewers.

NEW CASTLE, PA.—The council has passed an ordinance providing for an issue of $30,000 bonds for constructing a main sewer.

SCRANTON, PA.—A sewerage system to cost about $1,000,000 is to be constructed.

SWISSVALE, PA.—The sewerage system contract has been awarded to Lee & Casey and Connor & O'Herron, both of Pittsburg, at $60,000 total.

WILKINSBURG, PA.—The question of installing a system of storm water sewers has been recommended by Frease & Sperling, Borough Engrs.

GREENSBORO, N. C.—J. M. Bahdy, Cy. Engr., writes us that sewer extensions to accommodate two colleges and about 6,000 people, and about one mile of main, are contemplated at an early date.

BROOKHAVEN, MISS.—The city clerk has been directed to arrange with an engineer to survey the city and prepare plans and specifications for a sewerage system.

GREENWOOD, MISS.—Bids are asked until Aug. 6 for constructing a sewerage system. R. H. Hicks, Mayor.

CLEVELAND, O.—The following bids were received on July 16 for constructing the main intercepting sewer: Northern Ohio Paving & Construction Co., $230,270; Campbell Bros. Construction Co., $186,075; Beers & Doolittle, $184,520; Clements Bros., $176,160; Reaugh Construction Co., $226,385; John Wakner, Detroit, Mich., $187,530. For constructing Doan Valley intercepting

sewer: Clements Bros., $45,873; Campbell Bros.' Construction Co., $48,315; Beers & Doolittle, $51,258; Northern Ohio Paving & Construction Co., $53,110; Wm. J. Townsend, $57,537; Reaugh Construction Co., $60,435.

CONNEAUT, O.—Bids are asked until July 30 for constructing about 3,000 ft. of pipe sewer in Main St. W. F. Stanley, Mayor; Geo. B. Pike, Cy. Engr.

EAST CLEVELAND, O.—Bids are asked until July 27 for constructing a septic tank and an additional unit, with appurtenances, to the sewage disposal plant. H. B. Chapman, Village Clk.

LANCASTER, O.—The city clerk has been instructed to advertise for plans for a sewage disposal system.

SIDNEY, O.—Milton E. Bennett has been awarded a contract for constructing sewers, at $40,847.

WESTERVILLE, O.—An election will be held on Aug. 19 to vote on the question of issuing $20,000 bonds for constructing sewers, $25,000 for water-works and $30,000 for macadamized streets.

ALBION, IND.—Bids are asked until Aug. 6 for constructing a sewer from the court house and jail. Thomas A. Huston, County Audr.

INDIANAPOLIS, IND.—Bids are asked until July 31 by the board of public works for constructing sewers in several streets and alleys.

LAFAYETTE, IND.—Bids are asked until Aug. 1 for constructing the Frank P. Kirkpatrick et al ditch. Melville W. Miller, Drainage Commissioner.

LEBANON, IND.—George W. Seibert, Indianapolis, has been awarded a contract for constructing the sewerage system, at $59,733.

DETROIT, MICH.—Bids are asked until July 25 for constructing 2,317 lin. ft. of sewer. D. W. H. Moreland, Comr. Pub. Wks.

MT. PLEASANT, MICH.—Meagher & Donahue, Bay City, have been awarded a contract for constructing a trunk sewer, at $9,750 or $8,550, according to quality of pipe used.

SPRINGFIELD, ILL.—Mayor Phillips will advertise at once for bids for constructing a 450-ft. branch sewer, at an estimated cost of $9,000.

SPARTA, WIS.—Thill & Lapitz, La Crosse, have been awarded a contract for constructing about two miles of sewer.

MASON CITY, IA.—W. P. Fitch, Cy. Clk., writes us that the contract for constructing sewers was not let and that the work will be readvertised.

MASON CITY, IA.—Bids are asked until Aug. 5 for constructing sewers in several streets, approximately 144 ft. 15-in. pipe, 665 ft. 12-in. pipe, 980 ft. 10-in. pipe, 10,419 ft. 8-in. laterals, 346 ft. 10-in. laterals. W. P. Fitch, Cy. Clk.

CASS LAKE, MINN.—At the election on July 16 the question of issuing $10,000 bonds for sewers was defeated. W. L. McKeown, Recdr.

REDWOOD FALLS, MINN.—Fraser & Elliot, Rochester, have been awarded a contract for constructing sewers, at $2,209.

MARYSVILLE, KAN.—Korsmeyer Plumbing & Heating Co. have been awarded a contract for constructing sewers, at $2,500.

BOZEMAN, MONT.—Bids are asked until Aug. 1 for constructing sewers, approximately 4,480 ft. 10-in. pipe, 5,480 ft. 8-in. pipe, 3,470 ft. 6-in. pipe, etc. T. M. Pierce, Cy. Clk.

GREAT FALLS, MONT.—Bids are asked by the council until July 29 for constructing 8,000 ft. of 9-in. sewers.

SHERMAN, TEX.—Bids are asked until Aug. 5 for constructing a complete sewerage system. E. M. Kearney, Cy. Secy.; Jno. W. Maxey, C. E., Houston.

TERRELL, TEX.—The New Orleans Sewerage Co. has been incorporated at $10,000 to construct and operate a sewerage system in this city. M. W. Raley, W. P. Kelly.

ALBANY, ORE.—The council has passed resolutions ordering sewers in two blocks.

BERKELEY, CAL.—Ordinances providing for about 800 ft. of sewers have been adopted by the trustees. Thos. E. Thomas, Towg Clk.

MARTINEZ, CAL.—An election will be held on Aug. 16 to vote on the question of establishing a sanitary district in Richmond.

OAKLAND, CAL.—Resolutions have been adopted by the council ordering sewers in several streets.

VISALIA, CAL.—Bids are asked by the city clerk until Aug. 1 for constructing a sewerage system. Bonds to the amount of $60,000 have been sold for the work.

NAMPA, IDAHO.—The question of issuing $15,000 for a sewerage system is to be submitted to vote.

SHERBROOKE, QUE.—The council has passed a resolution providing for completing the sewerage system, at a cost of about $16,000.

TORONTO, ONT.—City Engineer Rust has made a report on the question of sewage disposal and recommends that a trunk system be constructed, to cost about $1,750,000.

STREETS AND ROADS.

CAMBRIDGE, MASS.—A resolution has been passed ordering Commercial Ave. to be widened between Bridge St. and the dock, approximately 2,038 sq. yds. Edward J. Brandon, Cy. Clk.

EVERETT, MASS.—The council has appropriated $8,500 for improving Edith St.

GROTON, CONN.—It was voted on July 15 to expend $4,500 for road improvements.

MANCHESTER, CONN.—It was voted on July 15 to appropriate $9,000 for macadam roads.

SYRACUSE, N. Y.—An ordinance has been adopted by the council ordering brick or macadam paving in West Kennedy St.

TROY, N. Y.—Bids are asked until Aug. 1 for building about 6,000 sq. yds. of granite block pavement, and 3,000 sq. yds. of brick pavement, as stated in our advertising columns. E. R. Cary, Cy. Engr.

EAST NEWARK, N. J.—Bids are asked until Aug. 14 for paving in two streets, approximately 1,500 sq. yds. of brick paving, 5,450 sq. yds. of asphalt paving, etc., price to include taking up and carting away 79,000 oblong trap rock blocks, 108,000 square trap rock blocks. William Healey, Borough Clk.

NEWARK, N. J.—The following bids for asphalt paving were received July 11: Barber Asphalt Co., Brunswick St., $15,112; Hampden St., $2,032; Monroe St., $15,235; Blum St., $5,357; Milton St., $2,118; Hunterdon St., $7,694; Orleans St., $3,196; Park St., $2,959; Essex Asphalt & Contracting Co., Brunswick St., $15,086; Hampden St., $2,155; Monroe St., $15,650; Blum St., $5,738; Milton St., $2,252; Hunterdon St., $7,842; Orleans St., $3,424; Park St., $3,164. Address City Engineer Adam.

NEWARK, N. J.—Bids are asked until Aug. 1 for brick or asphalt paving in ten streets. J. Crowell Mundy, Gen. Supt. of Works.

CHARLEROI, PA.—Hastings & Owen have been awarded a contract for paving in seven streets at about $33,000.

CORAOPOLIS, PA.—Bids are asked until Aug. 5 for paving sidewalks in several streets with brick, flagstone or artificial stone. H. W. Burns, Chn. St. Com.

WASHINGTON, D. C.—Bids are asked until Aug. 10 by the district commissioners for laying cement sidewalks, as stated in our advertising columns.

BLOWING ROCK, N. C.—Bids are asked until July 25 for grading about 10 miles of private road and constructing two earth dams on the estate of Moses H. Cone. Approximately 75,000 cu. yds. excavation, 50,000 ft. B. M. sheet piling and 3,000 sq. yds. macadam road. J. T. Montgomery, Resident Engr.

ATLANTA, GA.—The council passed an ordinance on July 15 for paving Whitehall St. with asphalt. City Engineer Clayton may be addressed.

TAMPA, FLA.—Bids are asked until Aug. 15 for about 18,999 yds. of brick paving with granite curbing. W. B. Henderson, Pres. Bd. Pub Wks.

CELINA, O.—Bids are asked until July 27 for grading, graveling and building culverts on about 8 miles of road. A. W. Fishbaugh, County Engr.

COSHOCTON, O.—Bids are asked until July 29 for grading, curbing and paving 7th St., approximately 5,200 cu. yds. excavation, 4,380 lin. ft. curbing and 9,100 sq. yds. paving. F. F. Wagner, Village Clk.

MANSFIELD, O.—Bids are asked until Aug. 10 for constructing sidewalks in Park Ave.; also for improving Sheridan Ave., Orchard and Bowman Sts. F. M. Remy, Cy. Clk.

MARION, O.—Bids are asked until Aug. 17 by the council for constructing 3,700 sq. yds. of brick or block pavements.——Pavements to cost about $40,000 will be constructed this year. Ed. S. Ault, Cy. Engr.

McCOMB, O.—A resolution to macadamize Liberty St. was passed by the council at a recent meeting.

DANA, IND.—Concrete sidewalks will be constructed on the principal streets.

INDIANAPOLIS, IND.—Bids are asked until July 31 by the board of public works for constructing cement sidewalks in three streets.

PLYMOUTH, IND.—The council has voted to pave streets in the business district to cost about $30,000.

DETROIT, MICH.—Bids are asked until July 26 for 3,552 sq. yds. of brick paving in three streets. D. W. H. Moreland, Comr. Pub. Wks.

CHICAGO, ILL.—The board of local improvements has ordered asphalt, brick and macadam pavements in several streets at a cost of about $222,709.

NORTH EVANSTON, ILL.—Commissioner of Public Works Moore will advertise at once for bids for about $50,000 worth of macadam paving.

SPARTA, WIS.—The Western Granite Co., Chicago, Ill., has been awarded a contract for macadamizing at $21,098.

DES MOINES, IA.—Bids are asked until Aug. 9 by the Board of public works for about 4,859 sq. yds. of asphalt paving with brick gutters; and until Aug. 12 for about 4,692 cu. yds. of grading.

LEAVENWORTH, KAN.—Ordinances have been passed by the council ordering brick, asphalt and macadam paving in several streets.

LEXINGTON, MO.—Bids are asked until Aug. 12 for furnishing 500 perch of macadam when needed. Louis Gratz, Cy. Register.

MARYSVILLE, MO.—It was voted on July 9 to issue $30,000 bonds for paving.

AUSTIN, TEX.—Bids are asked at once for brick and asphalt paving. W. G. Sneed, Cy. Engr.

CRIPPLE CREEK, COLO.—Several streets are to be macadamized at once.

DENVER, COLO.—The Colorado Paving Co. was the lowest bidder for paving in Colfax Ave. with asphalt, their bid being $50,497.

SEATTLE, WASH.—Resolutions have been passed by the council ordering improvements in several streets.

SAN FRANCISCO, CAL.—The supervisors have passed an ordinance for paving in several streets, to cost about $74,085. Jno. A. Russell, Clk.

ST. JOHN, N. B.—Street improvements to cost $100,000 will be made in the next two years.

ST. LOUIS, QUE.—The question of borrowing $150,000 for improvements in streets, etc., is being considered.

CHIPPEWA, ONT.—Bids are asked until July 31 for constructing about 24,000 sq. ft. of concrete sidewalks. W. E. B. McKenzie, Reeve.

TORONTO, ONT.—The following contracts were awarded on July 10: Constructing & Paving Co., asphalt paving in Howland Ave., $11,600; macadam paving in Huron St., $3,589; brick paving in Springhurst Ave., $6,496; Dominion Paving & Contracting Co., macadam paving in Parliament St., $2,871; W. Grant & Co., brick paving in Stewart St., $3,690.

TORONTO, ONT.—Bids are asked until July 27 for laying concrete sidewalks in certain streets. O. A. Howland, Chn. Bd. Control.

CONTRACT PRICES

PAVING.—Binghamton, N. Y.—I. C. Hull, Cy. Clk., writes us that the following bids were received July 9, 1901, for asphalt and brick paving in Susquehanna, State and Oak Sts.: (1) being for Trinidad asphalt, (2) for Mack wire cut brick, (3) for Mack repressed block, (4) for Park wire cut brick, (5) for Scranton brick, (6) for Johnsonburg brick, (7) for Syracuse brick, (8) for Preston brick, (9) for Park brick (3¾ ins.): Barber Asphalt Paving Co., New York, (1) $204; Whalen & Mathews Co., New York, (2) $207, (3) $2.12, (4) $2.17, (7) $1.97; Matthew H. Dale, Scranton, Pa., (5) $1.92, $1.90; Sheehan & McGhan, Bradford, Pa., (4) $2.15; Coryell Construction Co., Williamsport, Pa., (2) $2.03, (4) $2.10, (6) $1.97 and $1.98; Jos. M. Horner, Olean, N. Y., (4) $2.15, (7) $1.99, (8) $1.85; Albert L. Willey, Binghamton, (2) $1.99 and $1.94, (3) $2.08 and $2.05, (7) $1.95, (8) $1.81 and $1.79; Wm. A. Park, Rochester, Pa., (4) $1.94, (9) $1.84 (awarded both contracts).

BRICK PAVING.—Boone, Ia.—C. E. Russell, Cy. Engr., writes us that Wm. Palmer and Edward Samuelson, of Boone, submitted the following bid July 3, 1901, for brick paving: Cement curb, 1,000 lin. ft., 45 cts.; brick on 6-in. concrete, 3,500 sq. yds., $1.78; extra excavation, 75 cu. yds., 25 cts.; paving relaid, 100 yds., 15 cts.

SEWERAGE SYSTEM.—Woodbury, N. J.—The following bids were received July 9, 1901, for furnishing materials and for constructing a sewerage system: (1) American Artificial Stone Pavement & Construction Co., Philadelphia; (2) The Harrison Construction Co., Newark, N. J.; (3) Geo. W. Ledlie, Odd Fellows' Temple, Philadelphia; (4) A. Costa, Orange, N. J.; Wm. Easby, Jr., Consult. Engr., Dept. of Engineering, University of Pennsylvania: contract let to the American Artificial Stone Pavement & Construction Co., 211 South 9th St., Philadelphia.

	1.	2.	3.	4.
8-in. terra-cotta sewer:				
7 ft. and under 29.387 ft....	$0.32	$0.35	$0.34	$0.35
7 to 9 ft.... 11,725 " ...	.32	.43	[illegible]	.48
9 " 11 " ... 3,419 " ...	.42	.55	.45	.61
11 " 13 " ... 2,000 " ...	.51	.70	.59	.85
13 " 15 " ... 475 " ...	.63	.85	.82	1.15
15 " 17 " ... 365 " ...	1.10	1.15	1.08	1.25
17 " 19 " ... 380 " ...	1.25	1.50	1.29	1.50
19 " 21 " ... 140 " ...	1.75	2.00	1.77	2.50
10-in. terra-cotta sewer:				
7 ft. and under 2.635 ft....	.42	.42	.34	.43
7 to 9 ft.... 495 " ...	.42	.50	.41	.48
9 " 11 " ... 1,390 " ...	.55	.62	.54	.60
11 " 13 " ... 1,780 " ...	.68	.77	.70	1.00
13 " 15 " ... 171 " ...	.75	.95	.91	1.20
15 " 17 " ... 291 " ...	1.20	1.25	1.16	1.40
17 " 19 " ... 388 " ...	1.30	1.60	1.29	2.05
19 " 21 " ... 350 " ...	1.50	2.15	1.41	2.30
21 " 23 " ... 338 " ...	1.50	2.50	1.59	2.60
23 " 25 " ... 40 " ...	2.00	3.00	1.87	3.00
Cast-iron pipe* 310 " ...	2.00	.75	2.48	1.23
12-in. terra-cotta sewer:				
9 to 11 ft.... 375 ft....	.75	.75	.61	.70
11 " 13 " ... 450 " ...	.75	.90	.80	.87
13 " 15 " ... 420 " ...	.90	1.00	.99	.90
15 " 17 " ... 325 " ...	1.25	1.30	1.24	1.10
17 " 19 " ... 350 " ...	1.25	1.70	1.36	1.50
15-in. terra-cotta sewer:				
7 to 9 ft.... 50 ft....	.69	.80	.79	.80
9 " 11 " ... 125 " ...	.74	.95	.91	1.00
11 " 13 " ... 385 " ...	.85	1.05	1.04	1.05
13 " 15 " ... 1,400 " ...	.97	1.20	1.16	1.15
15 " 17 " ... 315 " ...	1.50	1.50	1.29	1.45
18-in. terra-cotta sewer:				
5 ft. and under 685 ft....	.69	.85	.85	.90
5 to 7 ft.... 425 ft....	.74	.95	.85	1.05
7 " 9 " ... 120 " ...	.87	1.05	.98	1.25
9 " 11 " ... 100 " ...	.87	1.15	1.10	1.40
11 " 13 " ... 150 " ...	.99	1.25	1.23	1.50
13 " 15 " ... 100 " ...	1.10	1.40	1.48	1.80
15 " 17 " ... 100 " ...	1.30	1.65	1.60	2.10
17 " 19 " ... 150 " ...	1.50	1.95	1.73	2.20
19 " 21 " ... 345 " ...	1.90	2.30	1.98	2.75
21 " 23 " ... 100 " ...	2.25	2.70	2.23	3.50
Avg fill 7½ ft. 225 " ...	1.25	1.50	.85	1.20
C.-I. pipe (tunnel) 110 "	13.20	6.00	2.96	6.50
20-in. terra-cotta sewer:				
5 ft. and under 857 ft....	.94	1.10	1.20	1.30
5 to 7 ft.... 850 " ...	.94	1.20	1.20	1.40
7 " 9 " ... 650 " ...	1.00	1.35	1.33	1.50
Avg fill, 3½ ft. 125 " ...	1.00	1.20	1.14	1.25
24-in. terra-cotta sewer:				
5 ft. and under 300 ft....	1.33	1.40	1.61	1.20
In concrete .. 140 " ...	3.13	2.20	2.11	2.50
Y branches (over and above price on straight pipe:				
8 × 4-in. ..... 1,500 each.	.50	.50	.46	.34
10 × 4-in. ..... 250 "	.73	.70	.68	.50
12 × 4-in. ..... 70 "	.95	.90	.88	.65
15 × 4-in. ..... 30 "	1.40	1.30	1.29	.90
18 × 4-in. ..... 15 "	1.91	1.60	1.75	1.30
20 × 4-in. ..... 20 "	2.53	2.00	2.33	1.70
4-in. t.-c. stand-pipes for house conns .1,200 ft....	.10	.15	.95	.20
Manholes: Plain—				
7 ft. & under 60 each.	30.00	28.00	47.35	21.00
7 to 9 ft.... 13 "	30.00	33.00	49.54	27.00
9 " 11 " .... 4 "	30.00	38.00	53.37	30.00
11 " 13 " .... 1 "	32.00	44.00	60.76	35.00
13 " 15 " .... 3 "	35.00	52.00	65.43	42.00
15 " 17 " .... 2 "	40.00	60.00	73.91	50.00
17 " 19 " .... 1 "	50.00	68.00	81.73	55.00
19 " 21 " .... 1 "	50.00	74.00	83.91	58.00
21 " 23 " .... 1 "	50.00	80.00	109.54	60.00
Manholes: Single junction—				
7 ft. & under 25 each.	35.00	29.00	47.35	25.00
7 to 9 ft.... 10 "	35.00	34.00	49.54	29.00
9 " 11 " .... 8 "	40.00	39.00	53.37	33.00
11 " 13 " .... 3 "	40.00	45.00	60.76	38.00
13 " 15 " .... 6 "	45.00	53.00	65.43	45.00
15 " 17 " .... 2 "	45.00	61.00	73.91	50.00
17 " 19 " .... 1 "	50.00	69.00	81.73	55.00
19 " 21 " .... 1 "	50.00	75.00	83.91	58.00
21 " 23 " .... 1 "	60.00	81.00	109.54	60.00
Manholes: Double junction—				
7 ft. & under 5 each	40.00	30.00	49.54	25.00
7 to 9 ft.... 4 "	40.00	35.00	49.54	29.00
9 " 11 " .... 3 "	45.00	40.00	53.37	33.00
11 " 13 " .... 2 "	50.00	46.00	60.76	37.00
13 " 15 " .... 1.....	55.00	54.00	65.43	40.00
15 " 17 " .... 1.....	60.00	62.00	73.91	42.00
17 " 19 " .... 1.....	60.00	70.00	81.83	45.00
19 " 21 " .... 1.....	60.00	76.00	83.91	60.00
21 " 23 " .... 1.....	60.00	82.00	109.54	65.00
23 " 25 " .... 1.....	60.00	90.00	113.89	75.00
Catch pans ..... 157 each.	5.50	2.00	6.75	1.50
Drop conns. for manholes:				
7 ft. & under 11 "	5.50	5.00	56.23	3.50
Over 7 ft. .... 7 "	5.00	10.00	83.60	5.00
Lampholes ..... 10 "	5.00	10.00	10.00	6.00
Flushtanks ..... 8 "	80.00	65.00	313.00	45.00
Inverted syphon†	1.500	1.500	1.010	1.626
Storage reservoir.‡	2.980	3.000	3.641	3.983
Masonry outfall, complete...	700.00	1.125	563.00	1.251
Total	$48,826	$53,793	$53,950	$60,000

*10-in., 57 lbs. a lin. ft.; no covering or trenching, laid on top of wall, complete. †Including 115 ft. of 20-in. cast-iron pipe and 7 supporting piers of first-class rubble masonry, containing 18 yds. of material, erected complete. ‡For sewage, exclusive of roof.

ASPHALT PAVING.—Benton Harbor, Mich.—C. S. Rigby, Cy. Engr., writes us that the Barber Asphalt Paving Co., of New York, has been awarded the contract, at $1.94 a sq. yd., for 16,000 yds. of asphalt paving in three streets on a 10-year guarantee.

GRANITE-BLOCK PAVING.—Newark, N. J.—David Harper has been awarded the contract for granite block paving on sand foundation in several streets, at $1.78 a sq. yd., $2.55, $2 and $1.68. Jas. Seme has been awarded the contract, at $1.82 a sq. yd., for the paving in Jacob St.

BRICK PAVING.—Coudersport, Pa.—The following bids were received July 10 for brick paving, as advertised in Engineering News: F. A. Dunham, Consult. Engr., Plainfield, N. J., and 220 Broadway, New York; E. M. Vail, Engr.:

Bids Received at Coudersport, Pa., July 10, 1901, for Brick Paving.

Quantities.		Buck & Ireland, Binghamton, N.Y.	Dean & Havens, Olean, N.Y.	Miller & Franklin, Buffalo, N.Y.	Sheehan & McGhan, Bradford, Pa.	H. C. Rudolph, East Aurora, N.Y.	Park Paving Co., Rochester, Pa.
Excavation	5,560 cu. yds.	$0.50	$0.40	$0.35	$0.23	$0.25	$0.28
Pavement (on concrete) Preston	11,100 sq. yds.	2.50[1]	2.00	1.75[2]	1.67[3]	1.75[4]	....
Pavement (on concrete) Park		....	2.12	....	1.65[5]	1.86	[6]1.63
Pavement (on concrete) Mack		2.60	2.05	....	1.90[7]	1.88[8]	....
5 x 20-in. curb (on gravel)	4,380 lin. ft.	.60	.58	.48	.52	.42	.47
4 x 18-in. " "	4,380 " "	.55	.50	.40	.45	.35	.40
5 x 20-in. " (on concrete)	4,380 " "	.75	.70	.58	.60	.50	.60
4 x 18-in. " "	4,380 " "	...	...	.48	.50	.42	...
5 x 20-in. circular curb corners	350 " "	.85	.65	.85	.75	.60	.75
4 x 18-in. circular curb corners	350 " "	.80	...	.75	...	...	...
4-in. drain tile	5,200 " "	.10	.20	.08	.10	.06	.04
8-in. sewer pipe, a lin. ft.		.45	.45	.50	.50	.23	.45
10-in. " " a lin. ft.		.50	.55	.70	.55	.30	.45
12-in. " "	1,012 lin. ft.	.65	.75	.80	.60	.36	.60
15-in. " "	1,440 " "	.80	.90	.90	.65	.40	.60
Catchbasins	14 each	60.00	35.00	20.00	25.00	22.00	17.50
Manholes	6 "	35.00	35.00	35.00	25.00	20.00	35.00
Lampholes	5 "	5.00	8.00	7.00	8.00	8.00	6.00
Batt stone	600 lin. ft.	.60	.58	.25	.30	.40	.25
Total concrete foundation		$37,220	$31,375	$26,968	$24,917	$24,825	$24,285
For broken stone foundation		32,780	.....	23,083	23,807	24,270	22,620

[1]Same make on broken stone. [1]$2.10, [2]$1.40, [3]$1.55, [4]$1.70, [5]$1.55, [6]$1.48, [7]$1.80; and for Clearfield block on concrete, [8]$1.92.

PIPE SEWERS.—Gloversville, N. Y.—M. V. B. Stetson, Cy. Clk., writes us that the following bids were received July 15, 1901, for constructing pipe sewers: (1) bid of A. M. Banker, Gloversville; (2) A. F. Nims, Philadelphia, N. Y.; (3) R. C. Wright & Co., Johnstown, N. Y.:

		1.	2.	3.
10-in. pipe	2,118 lin. ft.	$0.25	$0.29	$0.28
4-in. "	1,040 " "	.10	.11	.14
10-in. specials	53 " "	1.25	.70	1.50
Manholes	8 each	50.00	40.00	50.00
Lamphole	1	20.00	16.00	18.00
8–9 trenching	1,040 lin. ft.	.50	.35	.60
17–18 trenching	2,224 " "	3.30	3.79	4.25
Covers	53 each	.10	.20	.10
Lumber, a M. ft., B. M.		20.00	20.00	18.00
Total		$9,303	$10,294	$11,643

BRICK PAVING.—Lynchburg, Va.—E. G. Buck, of Bedford City, Pa., has been awarded the contract, at $1.42 a sq. yd., for brick paving in Madison St.

SEWERAGE.—Haddonfield, N. J.—The following bids were received July 15 for constructing a sewerage system and a sewage disposal plant; Alex. Potter, Engr., 150 Nassau St., New York:

Bids Received at Haddonfield, N. J., July 15, 1901, for Constructing a Sewerage System and Disposal Plant.

Quantities.		John Quinlan, South Amboy, N. J.	A. Costa, Orange, N. J.	J. H. Hurley, Trenton, N. J.	Herr & Clark, Altoona, Pa.	David Peoples, Philadelphia, Pa.	J. I. Hillpot, Bound Brook, N. J.
8-in. sewer, 0 to 6 ft. deep	555 lin. ft.	$0.30	$0.28	$0.26	$0.40	$0.43	$0.44
" " 6 " 8 " "	11,165 " "	.30	.37	.35	.44	.48	.51
" " 8 " 10 " "	11,710 " "	.38	.43	.40	.50	.60	.83
" " 10 " 12 " "	3,235 " "	.48	.55	.45	.60	.70	.80
" " 12 " 14 " "	525 " "	.60	.68	.59	.75	.80	.99
" " 14 " 16 " "	425 " "	.90	1.25	.90	.95	.90	1.42
" " 16 " 18 " "	720 " "	1.00	1.50	1.05	1.20	1.20	1.76
10-in. " 6 " 8 " "	100 " "	.45	.47	.45	.50	.59	.74
" " 8 " 10 " "	1,060 " "	.50	.50	.56	.56	.65	.77
" " 10 " 12 " "	825 " "	.60	.67	.65	.66	.80	.93
" " 12 " 14 " "	715 " "	.70	.85	.79	.81	.90	1.13
" " 14 " 16 " "	480 " "	.80	1.00	.90	1.01	1.10	1.50
12-in. " 6 " 8 " "	480 " "	.50	.65	.54	.60	.64	.80
" " 8 " 10 " "	1,100 " "	.60	.71	.60	.66	.84	.84
" " 10 " 12 " "	405 " "	.70	.80	.75	.76	.90	.98
" " 12 " 14 " "	20 " "	.80	1.25	1.50	.91	1.10	1.20
15-in. " 0 " 6 " "	1,390 " "	.55	.60	.63	.70	.78	.83
" " 6 " 8 " "	1,300 " "	.65	.67	.70	.76	.98	.96
" " 8 " 10 " "	1,565 " "	.75	.80	.88	.85	1.08	1.12
" " 10 " 12 " "	585 " "	.90	.91	1.00	.95	1.15	1.26
" " 12 " 14 " "	650 " "	1.00	1.00	1.15	1.07	1.30	1.47
" " 14 " 16 " "	525 " "	1.10	1.25	1.23	1.20	1.50	1.72
" " 16 " 18 " "	615 " "	1.40	1.50	1.48	1.40	1.70	2.06
" " 20 " 22 " "	250 " "	2.00	2.00	2.00	2.00	2.25	2.75
Branches on 8-in. pipe	1,130 each	.50	.40	.50	.50	.60	.40
" " 10-in. "	125 "	.70	.60	.63	.70	.74	.55
" " 12-in. "	80 "	1.00	.75	.80	.85	.88	.68
" " 15-in. "	200 "	1.50	1.00	1.25	1.25	1.25	.80
Deep-cut connections—Class A	300 lin. ft.	.45	.40	.45	.35	1.50	.20
Deep-cut connections—Class B	650 " "	.30	.20	.20	.15	1.30	.20
Manholes, 10-ft. and under	62 each	30.00	28.00	36.00	38.00	44.00	60.00
Intersection manholes	4 "	35.00	34.00	40.00	45.00	74.00	65.00
Length of manholes over 10-ft. deep	61 lin. ft.	3.00	3.00	4.00	4.50	5.00	5.00
Drop manholes	13 each	30.00	36.00	45.00	45.00	60.00	67.00
Flushtanks	27 "	40.00	35.00	45.00	30.00	50.00	70.00
Total cost of sewers proper		$24,804	$27,454	$27,275	$30,096	$36,559	$42,226
Sewage Disposal.							
Earth excavation	12,000 cu. yds.	$0.25	$0.17	$0.30	$0.18	$0.40	$0.35
Brick masonry	220 " "	8.00	9.00	9.00	10.00	9.00	8.50
Concrete	30 " "	5.00	6.00	5.00	6.50	7.00	7.00
15-in. vitrified pipe	550 lin. ft.	.50	.55	.50	.65	1.25	.60
10-in. vitrified pipe	550 " "	.30	.40	.35	.40	1.00	.35
6-in. tile	2,500 " "	.15	.07	.20	.15	.50	.21
10 x 15-in. T branches	8 each	1.50	2.00	1.50	1.25	2.00	1.70
10 x 6-in. T branches	30 " "	1.75	2.00	2.30	.70	2.25	1.00
Iron plates	8 "	7.00	2.00	6.00	8.00	20.00	2.00
Total cost of sewage disposal		$5,886	$5,035	$6,872	$6,323	$9,766	$7,430
Grand total, No. 1		$30,689	$32,488	$34,146	$36,419	$46,325	$49,656
Alternate Sewage Disposal Plant.							
Earth excavation	1,100 cu. yds.	$0.30	$0.17	$0.28	$0.20	.....	$0.35
Brick masonry	380 " "	7.50	9.00	9.00	10.00	.....	8.00
Concrete	45 " "	5.00	6.00	5.50	6.00	.....	7.00
Coke or broken stone	1,604 " "	2.50	2.00	2.00	2.80	.....	1.80
Gravel	535 " "	1.00	2.00	1.00	1.50	.....	1.10
Cast-iron pipe	2 tons	31.00	35.00	34.00	42.00	.....	35.00
15-in. vitrified pipe	300 lin. ft.	.50	.55	.52	.65	.....	.60
12-in. " "	360 " "	.46	.40	.40	.50	.....	.45
10-in. " "	360 " "	.40	.30	.32	.40	.....	.35
6-in. " "	566 " "	.26	.20	.20	.30	.....	.21
5-in. alternating syphons	2 each	500.00	150.00	175.00	130.00	.....	137.50
5-in. time syphons	2 "	500.00	125.00	175.00	130.00	.....	137.50
Total cost alternate sewage disposal plant		$10,619	$9,305	$9,015	$10,877	.....	$8,379

WATER PIPE.—Albany, N. Y.—Chas. Millar & Son, of Utica, N. Y., have been awarded the following contract for furnishing water pipe: 6-in. pipe, $25.48 per gross ton, delivered at the dock; 4-in. pipe, $26.60; special castings, 2¾ cts. per lb.

RESERVOIR.—Stoneham, Mass.—The Metropolitan Water Board, Boston, received the following bids July 9 for constructing the Bear Hill reservoir at Stoneham:

Bids Received at Boston, Mass., July 9, 1901, for Constructing Bear Hill Reservoir at Stoneham.

Bidder.	Excavation. Earth, 12,000 cu. yds.	Excavation. Rock, 3,000 cu. yds.	Portland c. c. masry, 1,000 cu. yds.	Paving set in mortar-concte, 200 cu. yds.	Rip-rap, 100 cu. yds.	Granite dimensn stone mas'ry, 15 cu. yds.	Laying 20-in. pipe, 320 lin. ft.	Laying 10 & 12" pipe, 100 lin. ft.	Total.
J. W. Meskill, Everett, Mass.	$0.32	$1.63	$7.00	$2.15	$2.00	$20.00	$0.75	$0.50	$16,950
The C. H. Eglee Co., Boston	.40	1.95	7.00	3.00	1.50	50.00	.80	.50	19,456
F. N. Lewis & Co., Herkimer, N. Y.	.46	2.25	5.85	4.00	2.00	50.00	.75	.65	19,575
C. E. Trumbull & Co., Boston	.43	1.75	7.65	5.00	2.00	35.00	1.50	1.50	20,415
Cenedella Brcs., Milford, Mass.	.48	1.65	9.00	4.50	.80	25.00	1.75	.45	21,670
J. Moulton & A. Saucier, Boston	.50	2.00	8.00	5.00	2.00	60.00	1.00	.75	22,495

ASPHALT PAVING.—Meriden, Conn.—W. S. Clark, Cy. Engr., writes us that the Central Asphalt Paving Co., of Hartford, Conn., has been awarded the contract as follows for paving, etc.: Asphalt paving, 3,130 yds., $2.98; new curb on concrete, 900 lin. ft., 88 cts.; old curb on concrete, 700 ft., 53 cts.; total, $10,490.

ASPHALT PAVING.—St. Paul, Minn.—The R. F. Conway Co., of Chicago, submitted the lowest bid, at $1.75 a sq. yd., for asphalt paving in certain streets; total, $34,500.

SEWERS.—Cambridge, O.—T. R. Deselin, Cy. Clk., writes us that the following bids were received July 13, 1901, for constructing sewers: (1) bid of A. G. Pugh, Columbus, O.; (2) Geo. Douglas, Cincinnati, O.; (3) John Maloy, Cambridge, O.; (4) Adams Bros., Zanesville, O.:

	1.	2.	3.	4.
8-in. pipe* 8,078 lin. ft.	$0.20	$0.16	$0.23	$0.20
5-in. pipe* 7,940 " "	.15	.12	.15	.15
Excavation and backfill:				
Under 6 ft. 300 " "	.30	.22	.32	.30
6 to 8 ft. 1,351 " "	.29	.25	.31	.30
8 " 10 " 3,683 " "	.50	.30	.51	.50
10 " 12 " 1,769 " "	.52	.30	.51	.50
12 " 14 " 775 " "	.62	.30	.60	.60
14 " 16 " 200 " "	.65	.40	.60	.60
5" srvc pipe 7,940 " "	.21	.22	.25	.20
Rock evcxtn 1,256 cu. yds.	1.02	1.00	1.50	1.00
Concrete 55 " "	5.50	5.00	5.00	5.00
Manholes 19 each	38.50	30.00	45.00	40.00
Flushtanks 7 "	66.00	50.00	60.00	65.00
Total	$11,119	$8,795	$12,384	$10,947

*Furnished and laved.

PAVING.—Muscatine, Ia.—Fuller Bros., of this city, have been awarded the contract as follows for brick paving: Excavating, 11,000 yds., 20 cts.; street curb, 8,600 lin. ft., 46 cts.; alley curb, 4,800 lin. ft., 38 cts.; paving with Buffalo brick, $1.06½; total, $29,280. The Likes Construction Co., of Des Moines, Ia., submitted a lower bid at 99 cts., but not Buffalo brick; total, $28,704.

PAVING, SIDEWALKS, ETC.—Toronto, Ont.—The board of confrol received the following bids July 10, 1901, for paving, etc.: Brick pavement—Springhurst Ave., Constructing & Paving Co., $6,496; Stewart St., W. Grant & Co., $3,690. Concrete sidewalks—Leopold St., W. R. Payne, 48 cts. per lin. ft.; Classic Ave., W. R. Payne, 38 cts.; A. Gardiner & Co., 49 cts. and 59 cts.

SEWERS.—Swissvale, Pa.—C. B. Judd, Borough Engr., 1219 Park Bldg., Pittsburg, Pa., informs us that the following contracts were let July 15, 1901, for constructing sewers in Secs. 1, 4 and 6; new bids for sections 2, 3 and 5 were called for until July 22. Section 1: Lee & Casey, Pittsburg, Pa., 15-in. pipe sewer, 1,070 ft., $1.26; 12-in., 1,881 ft., $1; 10-in., 1,339 ft., 95 cts.; 8-in., 5,901 ft., 89 cts.; concrete, $10 a cu. yd.; manholes, 22, $45 each; flushtanks, 10, $75 each; single or double 18-in. cast-iron pipe, 100 ft., $5; total, $12,007; section 4: Cronin & O'Herron, Pittsburg, 18-in. pipe sewer, 398 ft., $2; 15-in., 2,461 ft., $1.65; 12-in., 2,178 ft., $1.35; 10-in., 1,205 ft., $1.10; 8-in., 5,983 ft., 90 cts.; concrete, $8.20; manholes, 23, $55; flushtanks, 7, $95; 18-in. cast-iron pipe, 120 ft., $5; overflow weir, $100; total, $17,137; also section 6, 20-in. pipe, 263 ft., $2.35; 18-in., $1.65; 12-in., $1.15; 8-in., $1; concrete, $8; manholes, $65; flushtanks, $90; overflow weir, $100; total, 5,093.

MANUFACTURING PLANTS.

HYDE PARK, MASS.—The plans for the new plant of the B. F. Sturtevant Co. provide for an engine and electrical shop of gallery type, 120 x 400 ft., two buildings, each 80 x 400 ft. and three stories high, for blowers, heaters, forges, galvanized iron work, exhaust heads, etc., and a foundry 120 x 400 ft. In addition, independent offices, power and pattern storage buildings are planned for. Fireproof or slow-burning construction will be used throughout.

NEW BEDFORD, MASS.—Plans have been filed by the Morse Twist Drill & Machine Co. for a 4-story office building on Wing St., 42 x 164 ft.; shop on Fifth St., four stories, 45 x 42 ft.; storage building, three stories, 72 x 28 ft., and pickling building, one story, 14 x 22 ft.

NEW LONDON, CONN.—Among the improvements proposed by the Central Vermont R. R. is to erect a $400,000 grain elevator at this place.

ALBANY, N. Y.—Plans are being prepared for a mill for the coating of paper and cardboard to be erected at Thomsons. It will be of brick, 80 x 400 ft. and three stories high. The company is capitalized at $250,000. D. A. Bullard, A. W. Hitchcock, Schuylerville, and Thompson Smith, Albany, are interested.——The Fonda Canning & Preserving Co. has been incorporated, with a capital stock of $12,000, to do a general canning and preserving business. Abner H. Burtch, Isaac A. Rosa and Wm. Stube, Fonda, are incorporators.

ROCHESTER, N. Y.—It is stated that P. Gleason and E. P. Loomis & Co., of New York, are contemplating the erection of a $100,000 plant at Brighton.

CAMDEN, N. J.—The Geo. A. Newhall Engr. Co. and Arnold H. Moses, Arch., are reported to be making plans for a proposed sugar refinery in this city.

CHESTER, PA.—It is reported that preliminaries have been arranged and that 97% of the $3,000,000 capital has been subscribed for the new shipbuilding company to be located here. The company has not yet been incorporated. Wm. C. Sproul is interested.

PHILADELPHIA, PA.—Roberts & Rehfuss, Archs., have completed plans for the new brick and iron factory building for the S. S. White Dental Mfg. Co. at Frankford. Bids will be taken for the work.——Local papers state that the American Sheet Steel Co. has sold its plant at Shoneetown to the National Cable & Wire Co. for $30,000. The new owners will erect new buildings for the manufacture of telegraph and telephone cables. J. A. West, Pres.——Roydhouse, Arey & Co. have received a contract for building a new $150,000 machine shop for the Baldwin Locomotive Works, at 16th and Spring Garden Sts. The building will be six stories, 60 x 310 ft.

SCRANTON, PA.—The Timken Roller Bearing Axle Co., 1769 Broadway, New York, has asked for a site in this city for the erection of a factory for the manufacture of roller bearing axles. L. M. Preston, Gen. Mgr.

WASHINGTON, PA.—It is reported that William Jessop & Sons, Ltd., steel manufacturers of Sheffield, England, have decided to establish a steel works at this place.

WILMINGTON, DEL.—The Pullman Palace Car Co. has awarded the contract for the erection of its shops at this place to R. & S. Sollitt, of Chicago, Ill. The cost of the work will be about $190,000.

BALTIMORE, MD.—The Maryland Vacuum Ice Co. will begin the erection of its new plant, adjoining its present location on South Front St., about Nov. 1. The building will be two stories, 134 × 80 ft., and will have a capacity of 400 tons a day. Thomas E. Jenkins, Gen. Mgr.—Preparation for the general overhauling of the plant of the Columbia Iron Works and the extension of the same are now being made. The company now employ about 250 men and expect to enlarge the plant, employing about 800 additional men. Lieut. J. Quitman Leven, U. S. N., Pres.

CLARKSBURG, W. VA.—The citizens of this town have subscribed $50,000 of the $100,000 necessary for the location of a tinplate factory in Clarksburg. A free site has been offered. The plant will be capitalized at $1,500,000. The machinery will cost $300,000. C. C. Moore, of Elkhart, Pa., is promoting the enterprise.

ATHENS, GA.—It is stated that Louis B. Magid, of Milford, Mass., proposes to build a $150,000 mill in this place.

BIRMINGHAM, ALA.—John C. Brain, of New York, representing the Standard Fertilizer Co., has an option on a tract of land of about 20 acres on which a fertilizer and cement factory is to be constructed at a cost of about $250,000.

LOUISVILLE, KY.—Henry Stanyon, of the Stanyon-Miller Engineering Co., of Pittsburg, is in this city making investigations as to the practicability of establishing a steel plant here. The plan is to manufacture open-hearth steel products, turning out 500 tons of rods, wire fencing and nails a day. The company will be capitalized at $2,000,000. It will erect four large buildings and a number of smaller ones, requiring a site of 25 acres.

TOLEDO, O.—The new plant of the Toledo Bridge Co. will be considerably enlarged within a short time. Three new buildings will be included in the extension. Plans are being drawn for a pattern and store building 60 × 30 ft., a store room 64 × 15 ft. and a paint house 40 × 20 ft. Bids for the materials will soon be asked.

INDIANAPOLIS, IND.—The Victor Wire Fence Co., of Anderson, has been incorporated, with a capital stock of $75,000, by J. L. Vermillion, J. E. Van Derventer, Lafayette Swank and others.

IONIA, MICH.—The proposition of J. Hale & Sons to erect an elevator and exchange mill, with a minimum capacity of 12,000 bushels, has been accepted.

CHICAGO, ILL.—Reports state that the Chicago Tin Plate & Can Co., now being organized in this city, will be capitalized at $2,500,000 instead of $1,000,000, as at first reported. The company will erect a complete plant, including a steel plant and blooming mill, as well as tinplate mills, which will comprise 12 mills. P. L. Kimberly, A. A. Sprague and Wm. G. Hibbard are interested.—Crofts & Reed, soap manufacturers, have secured a permit to erect a $25,000 brick factory, three stories high, at 842 Austin Ave.

ASHLAND, WIS.—The Ashland Iron & Steel Co. proposes to expend $250,000 for an addition to its plant, and has let a contract to T. E. Pugh for constructing three large iron-covered buildings.

MADISON, WIS.—The Northern Electric Co., of this city, has decided to build a $100,000 extension to its plant here. The company has combined with the Stanley Electric Mfg. Co., of Pittsfield, Mass., and the local plant will be the western plant of the combine. W. F. Vilas and A. O. Fox are interested.

RED WING, MINN.—We are informed that contracts for the plant of the Red Wing Malting Co. will soon be let. The buildings will cost from $60,000 to $75,000. Wm. Griesser Engr. Co., Archs., 109 Randolph St.

WICHITA, KAN.—The packing plant opened by Jacob Dold & Sons in this city was destroyed by fire on July 16.

ST. LOUIS, MO.—Plans and specifications are being prepared for the buildings of the Mayfield Woolen Mills Clothing Co. The construction will shortly be started. The new plant will be eight stories high. It will employ about 2,000 hands. A. H. Duncan, Pres.

OWEN SOUND, ONT.—Horace Haight, Engr. Sun Portland Cement Co., Owen Sound, informs us that the company will award contracts for machinery, etc., on or before Aug. 1.

MISCELLANEOUS CONTRACTS.

WHARF.—Sewickley, Pa.—The council has decided to build a wharf at the foot of Chestnut St.

DAM.—Ellensburg, Wash.—Bids are asked Aug. 8 for a brush and gravel dam. S. P. Fogarty, County Audr.

TELEPHONE IMPROVEMENTS.—Cashocton, O.—The Citizens' Telephone Co. has issued $20,000 bonds for improvements.

DREDGING.—Oakland, Cal.—The city engineer has been instructed to prepare estimates of the cost of dredging Webster St. Slip.

CANAL.—Seattle, Wash.—Bids are asked until Aug. 13 for excavating on the Lake Washington Canal. John Mills, U. S. Engrs.

LAKE.—Minneapolis, Minn.—A lake is to be constructed and other improvements made at the state fish hatchery, to cost about $6,500.

TELEPHONE PLANT.—Chicago, Ill.—The Illinois Telephone & Telegraph Co. has issued $5,000,000 bonds for completing its plant.

SEA-WALL.—Manitowoc, Wis.—A 1,200-ft. sea-wall will be built at the mouth of the Little Manitowoc River at an estimated cost of $7,000.

DAM.—St. Cesaire, Que.—Narcisse Chevrefils, Church St., Ottawa, Ont., has been awarded a contract for constructing a dam at this place.

PARK IMPROVEMENTS.—Yonkers, N. Y.—Bids are asked until July 29 by the board of park commissioners for improving Washington Park.

DAM.—Buffalo, N. Y.—Plans are being considered by the park commissioners for a dam to be constructed at the westerly end of Delaware Park Lake.

DREDGING.—New York, N. Y.—Bids are asked until Aug. 3 for dredging about 100,000 cu. yds. of material at the navy yard. M. T. Endicott, Navy Dept., Washington.

WHARF.—St. Andrews, N. B.—Engineer Scammell, Pub. Wks. Dept., St. John, is surveying the wharf for which an appropriation has been made and bids will be called for.

CANAL.—Boston, Mass.—The work of surveying the route for the proposed canal from Boston Harbor to Narragansett Bay has been started by the harbor and land commission.

TELEPHONE EXTENSIONS.—Baltimore, Md.—The United Telephone & Telegraph Co. is extending its lines into Maryland and Pennsylvania, and has secured exchanges in several cities.

TELEPHONE LINE.—Galveston, Tex.—The Texas Construction Co. will build a telephone line between Houston and Galveston and from Houston to Beaumont. Claude Roberts, Supt. of Construction.

MINING.—Spokane, Wash.—The Valley Coal Co. has been incorporated and will begin development work soon on their property near Valley. H. A. Lee, Vice-Pres.; W. G. Davis, Treas. and Mgr.

TELEPHONE LINE.—College Station, Tex.—Bids are asked until July 30 for constructing a telephone line about five miles long from Prairie View Normal and Industrial Collge to Hempstead. L. L. Foster, Pres.

REMOVING CRIB WORK.—New York, N. Y.—Bids are asked until Aug. 3 for removing about 20,000 cu. yds. of crib work, mud silt, sand, etc., at the navy yard. M. T. Endicott, Navy Dept., Washington, D. C.

WHARF.—Wilmington, Cal.—Bids are asked until Aug. 6 by the supervisors, Los Angeles, for a franchise to construct and maintain a wharf on the easterly line of San Pedro Bay. C. W. Bell, Cy. Clk., Los Angeles.

TRAVELING CRANE.—Binghamton, N. Y.—The following bids were received on July 19 for a hand-power traveling crane and hoist: E. H. Titchner & Co., $4,325; Shapley & Wells, $2,007; Owego Bridge Co., Owego, $1,-968 (awarded contract). John Anderson, Secy. Water Comrs.

RIVER BANK PROTECTION.—Northampton, Mass.—The plans of E. C. & E. E. Davis, Engrs., for the continuation of bank protection of the Connecticut River have been approved by the harbor and land commissioners and the engineers have been authorized to advertise for bids for the work.

BEACON.—Grubbe Landing, Del.—The following bids for a beacon at the light station have been received: Alvin R. Morrison, Wilmington, $5,900; Randolph & Baer, Philadelphia, Pa., $6,293; F. K. Wills & Co., Wilmington, $6,832; Philadelphia Construction Co., Philadelphia, Pa., $8,340. The contract was awarded to Alvin R. Morrison.

WHARF, ETC.—New York, N. Y.—The following bids have been received by the dock board for extending pier at foot of West 30th St., North River: H. L. Sperin, $43,298; Wm. H. Jenks, $42,897. Manila rope: R. Rochester, 8⅝ cts. per lb.; Wm. E. Burke, 9 5-100 cts.; Fox Bros. & Co., 9½ cts.; Travers Bros. & Co., 8 97-100 cts. Yellow pine timber, per 1,000: Chas L. Hirsch, $19.63; Cooney, Eckstein & Co., $19.88; Eppinger & Russell, $26.68.

FOREIGN CONTRACTS AND EXPORT NEWS

ELECTRIC RAILWAY.—Torquay, Eng.—It is stated that P. Storey, Engr. to the Council, has submitted a report for an electric railway, to cost about $400,000.

SWITCHBOARDS.—Manchester, Eng.—Bids are asked until Aug. 14 for furnishing 43 switchboards for the power plant. Kennedy & Jenkin, 17 Victoria St., Westminster, London, S. W.

TELEPHONE SYSTEM.—Mexico.—The Mexican National Telephone Co. has been incorporated in Wilmington, Del., by Philadelphia parties with a capital of $1,000,000, to build telephone and telegraph lines in Mexico.

WATER PIPE.—Java, D. E. I.—Bids are asked until Sept. 18 for furnishing 3,075 tons of water pipe for the works at Soerabaya, Java, as stated in our advertising columns. Address M. Nyhoff, The Hague, Holland.

SEWERAGE SYSTEM.—Cape Town, Cape of Good Hope, S. A.—Hammersley Heenan, Engr., Table Bay Harbor Road, and Coodeson & Matthews, of Cape Town, have submitted a report for a sewerage and drainage system for the docks.

GAS PLANT.—Mexico City, Mex.—It is stated that the Mexico City Light, Heat & Power Co., is preparing to build its proposed gas plant in Mexico City at a cost of about $1,500,000. Wesley S. Block, of New York, N. Y., is interested.

RAILWAY.—Vera Cruz, Mex.—Reports state that Tomas Rosales, Civil Engr., Mexico City, is making surveys for a railway from Tuzamapan to the main line of the Inter-Oceanic Ry. Co. G. M. Stewart, Gen. Mgr. Inter-Oceanic Ry., Mexico City.

RAILWAY.—China.—Reports state that the Russian government is making surveys for a direct railway to Peking across the desert connecting with the Mid-Siberian Ry. extension, now being constructed around the south end of Lake Baikal.

POWER PLANTS, ETC.—England.—The Urban Electric Supply Co., Ltd., has been incorporated with a capital of $2,500,000, to build electric plants to cost from about $65,000 to $150,000 each, in a dozen or more towns. F. Hastings Medhurst, Consult. Engr., 13 Victoria St., Westminster, London, S.W.

RAILWAY.—Chihuahua, Mex.—Reports state that bids will soon be considered by Edward S. Safford, Ch. Engr., San Jose Mining & Milling R. R. Co., Chihuahua, for constructing 22 miles of railway from San Jose west to Gaviano, connecting the mines with the reduction works. Capital stock, $1,000,000.

ELECTRIC LIGHTING.—Varna, Bulgaria.—It is stated that a provisional concession for 40 years has been granted for lightinf the town of Varna by electricity, the estimated requirements being 50 10-ampere arcs and 1,500 16-c. p. incandescents. The generating station will be steam-driven as no water power is available.

MINING.—Russia.—U. S. Senator W. A. Clark, of Helena, Mont., has joined with Kleff capitalists in establishing a copper company having a capital of 15,000,000 rubles, Mr. Clark supplying 12,000,000 rubles. With M. Margolin, one of the directors, Mr. Clark is going to the government of Semipalatinsk to examine the mines there.

PURCHASE OF ELECTRIC PLANTS, ETC.—Isle of Man, Eng.—The property, franchises, etc., of the Isle of Man Tramways & Electric Power Co., Ltd., is to be sold at auction Sept. 7. There are three electric tramways about 22 miles long, a cable line over a mile long and 1¾ miles of horse line, besides power plants. H. Walker & Co., Douglas, I. of M., and 42 Castle St., Liverpool.

MINING, RAILWAYS, ETC.—Ecuador, So. Am.—It is stated that the Mines of Ecuador Co., Ltd., has been incorporated in London, Eng., with a capital of $7,000,000, to mine for gold, zinc, coal, etc., along the Guayaquil & Quito R. R., being build by J. P. MacDonald & Co., contractors, 35 Nassau St., New York, N. Y., for the Ecuadorian Association, Ltd., 33 Wall St., New York. Contracts will be let for about $2,000,000 worth of machinery, etc.

UNDERGROUND RAILWAY.—London, Eng.—Chas. T. Yerkes, as required by the Companies acts, has filed at Somerset House articles of incorporation of the Metropolitan District Electric Traction Co. Mr. Yerkes appears as Chairman; J. Wilcox Brown, Pres. Maryland Trust Co., as Secretary, and the following as the American directors: John E. Parsons, of New York; Brown Bros. & Co., and H. H. Rogers, of New York; T. Jefferson Coolidge and Frederick Ayers, of Boston, and John H. Mitchell, of Chicago. Of the capital of $5,000,000, Mr. Yerkes holds $1,800,000.

SUPPLIES, ETC.—Transvaal, So. A.—U. S. Consul-General Guenther, at Frankfort, Germany, reports that the Belgian consul at Johannesburg says that there will soon be openings for the sale of the following goods in the Transvaal: Axles of steel and iron for locomotives, railway cars, and other vehicles; wagon springs and oil and grease boxes; all the various materials for narrow-gage railroads; implements for agriculture and forestry; also rolling cars for mines, drawbridges, etc.; hoists and hoisting machinery for mines, pumps, ventilators, and other mine appliances; cutlery of all kind.

PORT IMPROVEMENTS.—Caribe, Venezuela, U. S. Consul Ellsworth, of Puerto Cabello, Venezuela, reports that Señor Francisco B. Teran has secured a contract from the Venezuelean government to construct at the port of the River Caribe a wharf 30 meters (99.3 ft.) long and 6 meters (19.7 ft.) wide. The work must be begun within one year from date of contract and be completed within 12 months thereafter. In payment the government grants the contractor the exclusive right to the customs of the port of Caribe for a period of 25 years; at the end of this time, the wharf, with all its accessories, in good condition, is to pass into the hands of the government.

RIVER IMPROVEMENTS.—France.—Jos. I. Brittain, U. S. Consul at Nantes, France, reports that it has been determined to cut the channel of the River Loire from Nantes to St. Nazaire, to a depth of 26 ft. The cost will be about $4,246,000, and it will require about two years to complete. The French government and the Consul-General of the Department of Loire Inferieure and the Nantes Chamber of Commerce will share the expense. In connection with the deepening of the channel of the Loire, extensive improvements have been commenced at Nantes. Mabon Island, which has retarded navigation in the north arm of the Loire, is being removed at a cost of about $800,000. The channel will then be 600 ft. wide. There are now under construction 975 ft. of new quays costing $400,000, which will give the city by the close of the year quays 21,000 ft. in length. After the removal of the island, additional quays will be built along the south bank of the River Loire. The last-named improvement, together with the construction of a large freight depot, will necessitate a further expenditure of upward of $1,-500,000. Recent surveys of the River Loire have also been made from Nantes fo Orleans, with a view tf deepening the channel. The estimated cost of this work is $26,-000,000. This would establish connections with canals extending to more distant parts of France. The deepening of the channel as far as Angers, 45 miles above Nantes, to a depth of 6 meters (19.7 ft.) has been practically determined, and the improvement of the balance of the river will doubtless follow. A congress to consider the matter is now in session at Orleans..

INDUSTRIAL NOTES.

THE UNITED STATES WOOD PRESERVING CO., New York, has removed its offices to Room 181, the Columbia Bldg., 29 Broadway.

TRACY & HUMPHREY, civil engineers and surveyors, announce that they have opened an office at Room 405, Sedgwick, Andrews & Kennedy Bldg., Syracuse, N. Y., and are prepared to furnish plans and estimates and to take charge of construction work.

PROPOSAL.

IRON BRIDGE,
HAMMONTON, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders of Atlantic County, N. J., on Wednesday, August 14th, 1901, at 11.00 o'clock A. M., for taking out the iron bridge at Absecon, putting in tide gates, and filling in road to grade. Right is reserved to reject any and all bids. Specifications and plans will be mailed on receipt of fifty cents.

M. L. JACKSON,
Chairman Bridge Committee,
Hammonton, N. J.

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